314-0010-00-J Bearpaws Parts List

Quantities per PAIR

			Quantities	POLITAIN	
	Part Name	HTC P/N	BP4466	BP350	BP130
PADS	Pad /BP44	314-0001-01	2	e te	
,,,,,	Pad /BP350	314-0018-01		2	
	Pad /BP130	314-0024-01			2
IARDWARE	Plastic bag 8x10	na	2	2	2
	→ Rear Filler block/BP44	314-0022-01	2		
	U-Clip / BP44	314-0006-15	4		-
_	U-Clip / BP350	314-0019-15		6	
	U-Clip / BP130	314-0026-15			4
	→ Low U-Clip/ BP44	314-0023-15	2		
500 SONE 1:1	Shrink on U-Clips	314-0021-01	6	6	6
	→ L-Clip/BP130	314-0025-15			4
	→ Iceblade	263-0005-15	4	8	8
	→ Slotted clip support	314-0007-15	0	12	12
	Bolt - AN4-14A	261-0001-17	4	12	12
	Bolt - AN4-15A	261-0002-17	4		
	Bolt - AN4-16A	261-0003-17	4		
	Nuts - MS20365-428				
	equiv: AN365-428A or MS21044N4	262-0001-17	20	28	28
	Washers - AN960-416	263-0001-17	32	40	40
	Filler block 1/4"	314-0012-01	4	12	
	► Filler block 1/16"	314-0014-01	16		
	Filler block 1/8"	314-0015-01	4		12
OCUMENTS	Plastic bag 9 x12	na	1	1	1
	Document - MDL/BP44	HTC-MDL-BP-R44-1000	1		
	Document - INST/BP44	314-0011-00	1		
	Document - MDL/BP350	HTC-MDL-BP-AS350-100	0	1	
	Document - INST/BP350	314-0018-01-S		1	
	Document - MDL/BP130	HTC-MDL-BP-EC130-100	0		1
	Document - INST/BP130	314-0031-00			1
	Can STC	na	1	1	1
	US STC	na	1	1	1
PACKAGING	Box / BP44 16.5x13x3.5"	na	1		
	Box / BP350 & BP130 24x21x3"	na		1	1
	Label /BP44	273-0001-04	1		

Nature of modifications: Modified BP44 for BP4466

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

501-01 -seq

Inspection Plan

Aspect	Sampling	Inspection Acceptance parameters
Α	All	all components present in correct atv
В	1	All documents present
С		All in match used list
D	V	Boxes correctly identified
E		1 20
Inspection	n Plan approved	by: Date: 2017-07-07

Inspection Records

Ok = T + initials

Date:	Quantity	A /	B/	C	D/	E	Notes
2017-07-03	3.3	V mpc	V mp	1 mp	V mpc		() à (3)
2017-07-07	3	of mpc	VADE	V ma	Ina		64),6\$,00
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Nelease	Certificates	12200

Release Certificates issued: yes no By: Comments:

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Date: 2017 -07-07

HTC-LNF-(01) to (26)

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e 4	1	4	4	2 4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1		Filler block REAR	314 0022 01	В	2			26	52	LN-160317-01	6	LN-170501-02	46	6					1
e 5	1	1	1	1	1		1	1	1	1	1		1	1	1	1	1	2	3	4	1	1	1	1	1		U-shaped Clips	314 0006 15		4			26	104	LN-170406-01	92	LN-141205-01	4	l	LN-131015-02	4	LN-160422-02	4	
96		1	1		1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1		LOW U-shaped clips			2			26	52	LN-170406-02	52			1					
7						1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	Iceblade Assy	314 0002 15	1000	4			26	104	LN-141106-01	104	1							
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9		1	1		1	1	1	1	1	1	1		1	2	2	2	2	2	2	2	1	1	1	1	1	1	Filler blocks 1/8"	314 0015 01	В	4			26	104	LN-170628-03	76	LN-120516-04	28	В					
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12	1	2	2	0 0	3	3	3	3	3	3	3		3	3	3	3	3	3	3	3	3	3	3	3	3		Bolts AN4-15A	261 0002 17	-	4			26	104	API 82947/74978	4	API 84339/7333	4	A	AS 87406/80029	96			
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14	1	1	1	1 1	1	1		1	1	1	1		1	1	1	4	4	2	2	2/3	4	4	4	4	4		Nuts	262 0001 17	-	20	_		26	520	AS 89913/725219	300	82695/722940	50) [8	32694/722904	10	AS 89176/724549	160	
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HAS 32+1 washers instead of 32+2

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L) washers en route from Aircraft Spruce (x200)
PO MPG-20170628

170 +40+6

P44\BP44 lot assembly HTC-RC-170501-01.xl

Helitow	cart	- RELEASE	INSPEC	CTION ge	eneral			F40-02	Page 1 of 1
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_	-	-	-	-		-	.1 L1	-	_		1 1	L1	L1	L1	L	1 L	_1	L1	L1	Bolts AN4-15A	261 0002 17	Α	4		20		API LOT 84339/73335	80		+		-			-	-	80
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Helitowca	art - RELEASI	INSPE	CTION ge	neral	***************************************		F40-02	Page 1 of 1
Reviewed	& approved by:							2006 09 09
T	la:11:4 4							
	bility data Part No.		Desc:			Lot nu	ımber	
	112 0001			for R44	1 . R66		NF-14-	1127-01
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Inspectio	n Plan approved	l by: 🗡	. Idae	leave		Date:	2014	11 27
Inspect	tion Records		Ok = T+	initials				
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Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09
		2000 03 03

Qty Part No. Desc:	Lot number
0004 1 14 65	
20 112 0001 00 F BEAR JOE 44 2 66	HTC-LNF- /3/025-01
Includes:	7,
SEE ATTACHED EXCEC SHEET	LN-
FOR DETAILED LIST OF COMPODEDTS	LN-
LOT NUMBERS	LN-
	LN-
	LN-
	LN-
	LN-

Inspection Plan

Aspect	Sampling	Inspection	Acceptance parameters
Α	100%.	ALL COMPONENTS PRESENT & IN	
В		ALL DOCUMENTS PRESENT	41/
С		ALL UN MATCH USED LIST	
D	1	BOX CORRECTLY IDENTIFIED	
E		The state of the s	
Inspection	n Plan approve	d by: N. Bacleau	Date: 20/3 10 25

Inspection Records

Ok = T + initials

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Comments:				2010

ATT- CNF- 131025-01/20 (20)

HTC-RC-131025-01																				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	17 18	19	20		P/N	Rev	Qté par + paire a	+Sp pa	-	Qté totale pièces	Lot 1	Qty	Lot 2	Qty	Lot 3	Qty	Lot 4	Qty	Lot 5	Qty
ear filler block assy					-	+-		-				+				-				-
.1 [1] [1] [1] [1] [1] [1] [1] [1] [1] [1	L1 L1	L1	L1	Bp pads	314 0001 01	С	2		20	40	LN-131021-01	40								
.1 1 1 1 1 1 1 1 1 1	L1 L1	L1	L1	Filler block REAR	314 0022 01	В	2		20	40	LN-131015-03	40						1		
1 [1] [1] [1] [1] [1] [1] [1] [1] [1] [1	L1 L1	L1	L1	U-shaped Clips	314 0006 15	С	4		20	80	LN-131015-02	80								
1 [1] [1] [1] [1] [1] [1] [1] [1] [1] [1	L1 L1	L1	L1	LOW U-shaped clips	314 0023 15	В	2		20	40	LN-131015-01	40								
	L1 L1	L1	L1	Iceblade Assy	314 0002 15	Α	4		20	80	LN-110323-05	80								
	L1 L1	L1	L1	Filler blocks 1/4"	314 0012 02	В	4		20	80	LN-120516-03	80				-				
	L1 L1	L1	L1	Filler blocks 1/8"	314 0015 01	В	4		20	80	LN-120516-04	80	3							
L1 L2 L2 L2 L2	L2 L2	L2	L2	Filler blocks 1/16"	314 0014 01	В	16		20	320	LN-120516-05	192	LN-131022-01	128						
L1 L1 L1 L1 L1 L2 L2 L2 L2 L2 L2 L2 L2 L3 L3	L2+L3 L1	L4	L4	Bolts AN4-14A	261 0001 17	Α	4		20	80	Aircraft Spruce LN-74944/14597	28	Aircraft Spruce LN 74944/14597	34	API LN-69107/14598	10	API LN-81271/22475	8		
L2 L2 L3 L3 L3 L3 L3 L4 L4 L4 L5 L5 L5 L5 L5	L5 L5	L5	L5	Bolts AN4-15A	261 0002 17	Α	4		20	80	API LN-76514/55154	4	M&M Hardware LN-10357	8 .	API 79281/21388	20	API LN-85681	16	API LN-80196/4477	32
L1 L	L1 L1	L1	L1	Bolts AN4-16A	261 0003 17	Α	4		20	80	API LN-87962	80								
L1 L1 L1 L1 L1 L2	L1+L2 L2	L2	L2	Nuts	262 0001 17	Α	20		20	400	API LN-78108-720728	150	API LN-77347	250						
1	12 12	L2+L3	14+15	Washers	263 0001 17	A	32	8	20	640	API LN-80300/X3749	600	API LN-86876	140	API I N-73384/V4700	20	API 1 N-76938/SA2023	34	Aircraft Spruce I N-73384/v4700	6

D. Baleau 213 10 35



HTC-RC-131025-01							
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Qté par P/N Rev paire +Spa	Nb Qté paires totale res req pièces Lot 1	Qty Lot 2	Qty Lot 3	Qty Lot 4	Qty Lot 5	Qty
Rear filler block assy							
1 L1	314 0001 01 C 2	20 40 LA . 13CDZ	1-0 go			-	-
-1 L1	314 0022 01 B 2	20 40 LN-131015-03	40				
1 L1	314 0006 15 C 4	20 80 LN - 13 10	15-02 30				
1 L1	ps 314 0023 15 B 2	20 40 110-12/0	5-4 40				
1 L1	314 0002 15 A 4	20 80 LN-110323-05	80				
1 L1	314 0012 02 B 4	20 80 LN-120516-03	80				
1 L1	314 0015 01 B 4	20 80 LN-120516-04	80	NINO		ennian nature et la antique da relev	SELECTION STREET
.1 L1	314 0014 01 B 16	20 320 LN-120516-05	80 192 W-13 (C) 2	7100		The state of the s	
.1 L1 L1 L1 L1 L2 L2 L2 L2 L2 L2 L2 L2 L3 L3 L3 L2+L3 L1 L4 L4 Bolts AN4-14A	261 0001 17 A 4	20 80 Aircraft Spruce LN-7	4944/14597 28 Aircraft Spruce LN 74944/14597	7 34 API LN-69107/14598	10 API LN-81271/22475	8	THE THE PERSON
1 L2 L2 L3 L3 L3 L3 L4 L4 L4 L5 L5 L5 L5 L5 L5 L5 L5 L5 Bolts AN4-15A	261 0002 17 A 4	20 80 API LN-76514/5515	4 4 M&M Hardware LN-10357	8 API 79281/21388	20 API LN-85681	16 API LN-80196/4477	32
1 L1	261 0003 17 A 4	20 80 API LN-87962	80	THE RESERVE OF THE PARTY OF THE	A D TO THE STATE OF THE STATE O		100
1 L1 L1 L1 L1 L1 L2 L2 L2 L2 L2 L2 L2 L2 L1+L2 L2 L2 L2 L2 Nuts	262 0001 17 A 20	20 400 API LN-78108-7207	28 150 API LN-77347	250			
L1 L	263 0001 17 A 32 8	20 640 API LN-80300/X374	9 600 API LN-86876	140 API LN-73384/V4700	20 API LN-76938/SA2023	34 Aircraft Spruce LN-73384/v47	00 6

NOTES:	ITEM	QTY	PART NUMBER	DESCRIPTION	N	MATERIAL	SPECIFICATION	SIZE
1. ICEBLADE ASSEMBLY CAN BE OMITTED FROM INSTALLATION (OPTIONAL)	1	1	314-0001-01	BEARPAW - PAD		UHMW		1" THK.
2. TOURSE ASSESSED SAN SE STATES THOSE MOTHER TON (OF HOME)	2	-	314-0022-01	BEARPAW - FILLER BLOO	the state of the same of the s	UHMW		1/2" THK.
2. FASTENERS LENGTH TO BE DETERMINED AT THE INSTALLATION	3		314-0012-01	BEARPAW - FILLER BLOO		UHMW		1/4" THK.
	4	-	314-0006-15	BEARPAW - U SHAPED C		SS304	ANNEALED	GAGE 12
	5		314-0014-01	BEARPAW - FILLER BLOO		UHMW		1/16" THK.
	6	-	314-0015-01 \	BEARPAW - FILLER BLOO		UHMW		1/8" THK.
SHRINK (7)	7	THE RESERVE AND PERSONS NAMED IN		BEARPAW - SHRINK (FIT	T-221)	POLYOLEFIN		1" DIA X 5" LO
TYP 3X	8	-	314-0023-15	BEARPAW - LOW U SHAP	PED CLIP	SS304	ANNEALED	GAGE 12
	9		314-0005-15	ICEBLADE ASSEMBLY		STEEL		
TYP 6X (11) (6) TYP 2X	10	16 34	263-0001-17	WASHER (AN960-416)		STEEL		1/4
	11	10 2	262-0001-17	NYLON NUT (AN365-428	BA)	STEEL		1/4
TYP 6X (10)	12	2 4	261-0002-17	HEX BOLT (AN4-15A)		STEEL	QQ-P-416A	1/4-28
	13	24	261-0001-17	HEX BOLT (AN4-14A)		STEEL		
CLIP TYP 2X	14	24	261-0003-17	HEX BOLT (AN4-16A)		STEEL	QQ-P-416A	1/4-28
TYP 2X (3)			TYP 4X					
TYP 4X 10						isrono.		
TYP 4X 11						IBLED		
TYP 4X 11 TYP 6X 10 TYP 2X 12 TYP 2X 9 TYP 2X 13 TYP 2X 14 EXPLODED SCALE 1		1		THIS DRAWING IS PROPERTY OF MELITOWCAPT AND MAY NOT DISTRIBUTED WITHOUT AUTHOUT AUTHOU	ASSEM SCALE F BE COPIED OR	IBLED 1/4 Helite St-Nico	owcart (Vanai blas, Levis, Qc, rw.helitowcart.co	Canada
TYP 4X 11 TYP 6X 10 TYP 2X 12 TYP 2X 13 TYP 2X 14 EXPLODED SCALE 1	1/4			THIS DRAWING IS PROPERTY OF MELITOWCART AND MAY NOT DISTRIBUTED WITHOUT AUTHOUT GRAFTED BY: G. LAPOINTE 2	ASSEM SCALE F BE COPIED OR DRIZATION. DATE: 2006/04/25	IBLED 1/4 Helite St-Nico	owcart (Vanai olas, Levis, Qc, ow.helitowcart.co	Canada
TYP 4X 11 TYP 6X 10 TYP 2X 12 TYP 2X 13 TYP 2X 14 EXPLODED SCALE 1	1 / 4 ISED BY A	APPROVE	D DATE	THIS DRAWING IS PROPERTY OF HELITOWCART AND MAY NOT DISTRIBUTED WITHOUT AUTHOUT AUTHOU	ASSEM SCALE F BE COPIED OR DRIZATION. DATE: DODG/04/25 DATE: DATE:	IBLED 1/4 Helity St-Nico www	owcart (Vanai blas, Levis, Qc, rw.helitowcart.co	Canada
TYP 4X 10 TYP 6X 10 TYP 2X 12 TYP 2X 13 TYP 2X 14 EXPLODED SCALE 1 REV DESCRIPTION REVISION REV ISSUE FOR PRODUCTION G.LAI	SED BY A	APPROVE M. ZGEL	D DATE A 2006-04-25	THIS DRAWING IS PROPERTY OF MELITOWCART AND MAY NOT DISTRIBUTED BY: ORAFTED BY: CHECKED BY: APPROVED TCCA BY M. ZGELA DISTRIBUTED APPROVED TCCA BY M. ZGELA	ASSEM SCALE F BE COPIED OR PRIZATION. PARTE: 10006/04/25 PARTE: 20006/04/25	IBLED 1/4 Helity St-Nico www	owcart (Vanai olas, Levis, Qc, ow.helitowcart.co	Canada
TYP 4X 11 TYP 4X 10 TYP 2X 12 TYP 2X 13 TYP 2X 14 EXPLODED SCALE 1 REVISION REVISION REVISION A ISSUE FOR PRODUCTION A ISSUE FOR PRODUCTION B MODIFY BOLT MODEL AND ADD FILLER BLOCK G.LAI B. MODIFY BOLT MODEL AND ADD FILLER BLOCK	SED BY A POINTE POINTE	APPROVE	ED DATE A 2006-04-25 A 2006-08-08	THIS DRAWING IS PROPERTY OF MELITOMICAL AND MAY NOT DISTRIBUTED WITHOUT AUTHOUT DRAFTED BY: G. LAPOINTE CHECKED BY: APPROVED TICA BY M. ZGELA IF NOT SPECIFIED	ASSEM SCALE F BE COPIED OR PRIZATION. PARTE: 10006/04/25 PARTE: 20006/04/25	IBLED 1 / 4 Helity St-Nico www REFINITION:	owcart (Vanai blas, Levis, Qc, rw.helitowcart.c BEARPAW ASSEMBLY	Canada
TYP 4X 10 TYP 6X 10 TYP 2X 12 TYP 2X 9 TYP 2X 13 TYP 2X 14 EXPLODED SCALE 1 REVISION REV DESCRIPTION REVI A ISSUE FOR PRODUCTION G.LAI B MODIFY BOLT MODEL AND ADD FILLER BLOCK AND SHRINK G.LAI C MODIFY BOLT MODEL AND ADD FILLER BLOCK AND SHRINK G.LAI	SED BY A POINTE POINTE POINTE	APPROVE M. ZGEL M. ZGEL	ED DATE A 2006-04-25 A 2006-08-08 A 2006-09-06	THIS DRAWING IS PROPERTY OF MELITOWCART AND MAY NOT DISTRIBUTED WITHOUT AUTHOUT OF THE DEVICE OF THE DEVICE OF THE NOT SPECIFIED GENERAL TOLERANCE	ASSEM SCALE BE COPIED OR PRIZATION. DATE: 0006/04/25 DATE: 0006/04/25 UNITS: INCH SIZE	IBLED 1 / 4 Helity St-Nico www REFINITION:	owcart (Vanai blas, Levis, Qc, rw.helitowcart.co	Canada
TYP 4X 11 TYP 4X 10 TYP 2X 12 TYP 2X 12 TYP 2X 13 TYP 2X 14 EXPLODED SCALE 1 REVISION REV DESCRIPTION REVISION A ISSUE FOR PRODUCTION G.LAI B MODIFY BOLT MODEL AND ADD FILLER BLOCK G.LAI C MODIFY BOLT MODEL AND ADD FILLER BLOCK AND SHRINK G.LAI D ADDITION OF STREAMLINE PAD CONFIGURATION S.BE	SED BY A POINTE POINTE POINTE ERNIER	APPROVE M. ZGEL M. ZGEL M. ZGEL	ED DATE A 2006-04-25 A 2006-08-08 A 2006-09-06 A 2009-10-22	THIS DRAWING IS PROPERTY OF MELITOMICAL AND MAY NOT DISTRIBUTED WITHOUT AUTHOUT DRAFTED BY: G. LAPOINTE CHECKED BY: APPROVED TICA BY M. ZGELA IF NOT SPECIFIED GENERAL TOLERANCE	ASSEM SCALE F BE COPIED OR PRIZATION. PATE: 2006/04/25 WATE: DINCH DI	IBLED 1 / 4 Helity St-Nico www REFINITION:	owcart (Vanai blas, Levis, Qc, rw.helitowcart.c BEARPAW ASSEMBLY 2-0001-00	Canada com

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Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09
Neviewed & approved by.		_

Qty	Part No.	Desc:	Lot n	umber
Paies 9	112 0001 60 D	BR44 STREAMLINE BEARPAW ASSY		LNF-/30203 -Of LNF-yymmdd-seg
Include	es:		-	,,,
	SEE ATTACHE	D EXCEL SHEET	LN-	AUDIT TE 2013
_		D LIST OF COMPONENTS	LN-	
	d LOT NUMB	ERS	LN-	
			LN-	
			LN-	
		×.	LN-	
			LN-	

Inspection Plan

Aspect	Sampling	Inspection Acceptance parameters
Α	100%.	PRESENCE OF ICEBLADES & LANGE FILLER BLOCK
В		11 11 DOCUMENTS
С		ALL LN MATER USED PARTS
D		ALL COMPONENTS PRESENTA IN CORRECT DT9
E		Box APROPRIATELY IDENTIFIED
Inspection	n Plan approve	d by: Date: 2013 02 03

Inspection Records

Ok = T + initials

Date:	Quantity	А	В	С	D	E	Notes
20130203	9 Pairs	or both	acos	DIC DE	DE PB	OK DB	ů.
							•
							S

Release certificates issue

Release Certific	cates issued: yes	no	By: NATHALIE BARBE	EARL	Date: 2	2013 02 03
Comments:				(and the state of t
	HTE-LN	F-	130203 - (01)	te		
			(02)	(-0	7	
			-(00)		9	
			-(3)	(-0		
			Call	1-0	29)	
			-(04)		•	
			(55)			
			-(03)			



THIS KIT WES ADDED TO DU KITS IN STOCK ON OCT 22, 2013 LIST OF KITE: HTC-RC-120518-01 @+ 69+ (10)

October 22, 2013

· HC-RC-130203-01 @4+ 67+ 68+ 69

Object:

Shorter Bolts for tighter fit on Bearpaws for R44/R66

To whom concerned,

It has been brought to our attention that some cases call for shorter bolts to get the best fit in attaching the U-Clips to the skids. As mentioned in the installation instructions, the use of longer or shorter bolts may be adjusted as required (314-0011-00- Rev. D - p 3/14, Step 3).

We have thus included in this package, extra bolts to allow you to adapt installation to your preference. In most cases shorter bolts may be needed so the extra bolt package includes AN4-15A and AN4-14A:

Original bolts package contains:

Front tip: AN4-15A
Center: AN4-16A

No need to adapt the rear U clip.

Should you have any question described as the same of the

Should you have any question, do not hesitate to contact us.

API LN 812721/22475

Ralei Barlean

4x AN4-15A

API LH 80136/4477

Nathalie Barbeau VP Commercial Affairs, Helitowcart (Vanair inc)

Letter_Previous_batches_Shorter_bolts_2013_10_22



314-0011-00 Rev D BearPaw Model BP44 Installation Instructions - R44

INSTALLATION

BearPaw Installation

Reference Documentation:

[1] Robinson R44 - Maintenance Manual & Instruction for Continued Airworthiness. RTR460.

[2] Annex A – BearPaw Assembly Drawings (112-0001-00-C & 112-0001-00-E)

Step 1: Helicopter Preparation

- · Ensure the helicopter is safe for maintenance;
- Lift the helicopter using the manufacturer recommended practice provided in Ref [1] to allow a clearance of the skid in the area of the aft cross tube of approximately 1 ½" (38mm);
- Remove aft skid wearshoe & re-install the attaching screws.

Step 2: BearPaw Preparation

- With IceBlade Option: Install ice blades (Qty:2) under BearPaw pad as per drawing (112-0001-00)
 Ref [2];
- With IceBlade Option: Insert washer (Washer P/N 263-0001-17) through threaded part of the ice blade and secure with nut (P/N 262-0001-17);
- Position the BearPaw under skid at the aft intersection with the cross tube as per figure 1 with narrow edge pointing forward.

Step 3: BearPaw Set Up

- Insert washers (P/N 263-0001-17) through all four front bolts: 2x(P/N261-0002-17) & 2x(261-0003-17);
- Insert bolts(P/N261-0002-17) & (261-0003-17) and washer (P/N 263-0001-17) through BearPaw pad as per drawing (112-0001-00) Ref [2]
- If Streamline model, then apply step 3.1. See step 3.1described below.
- Position the BearPaw pad under the skid
- Insert small filler blocks (P/N314-0012-01) & (P/N314-0014-01) at front of BearPaw& Insert filler blocks (P/N314-0015-01) at center of BearPaw as per drawing (112-0001-00) Ref [2];
- The use of filler blocks mentioned above may be increased, decreased, replaced or complemented by the use of washers (P/N 263-0001-17). Bolts (P/N261-0002-17) & (261-0003-17) may be replaced by longer or shorter AN4 bolts as required.
- Insert both U-shaped clips (P/N 314-0006-15) through bolts: 2x(P/N261-0002-17) & 2x(261-0003-17);
- Insert slotted clip supports (P/N 314-0007-15) through all four bolts. Position slotted clip supports with rounded edge toward helicopter skid;
- Insert washer (P/N 263-0001-17) & screw nuts (P/N 262-0001-17) for a tight fit. Max. torque on nuts 60 in.-lb.

Step 3.1: With the Streamline Version of the Bearpaw (P/N 112-0001-00-E)

- Insert washers (P/N 263-0001-17) through bolts (P/N261-0002-17)
- Insert bolts (P/N261-0002-17) and washer (P/N 263-0001-17) through the rear BearPaw pad as per drawing (112-0001-00-E) Ref [2]
- Insert rear filler block (P/N 314-0022-01) at the rear of BearPaw as per drawing (112-0001-00-E) Ref [2];
- Insert two washers (P/N 263-0001-17) per bolts (P/N261-0002-17) (four washers total)
- Insert Low U-shaped clip (P/N 314-0023-15) through bolts: (P/N261-0002-17) as per drawing (112-0001-00-E) Ref [2];
- Insert slotted clip supports (P/N 314-0007-15) through bolts. Position slotted clip supports with rounded edge toward helicopter skid;



October 22, 2013

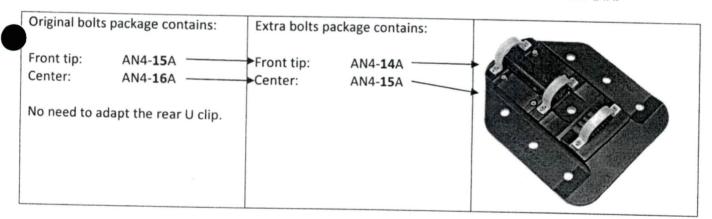
Object:

Shorter Bolts for tighter fit on Bearpaws for R44/R66

To whom concerned,

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Should you have any question, do not hesitate to contact us.

athalei Barlean

Nathalie Barbeau

VP Commercial Affairs,

Helitowcart (Vanair inc)

Letter_Previous_batches_Shorter_bolts_2013_10_22

HTC-RC-130203-01								
1 2 3 4 5 6 7 8 9	P/N	Qté par paire	Nb paires req	Qté totale pièces	1	Otv	Lot 2	Ot
		<u> </u>		•		Qty	Lot 2	Qty
Rear filler block assy						-		-
L1 L1 L1 L1 L1 L1 L1 Bp pads STREAMLINE	314 0001 01 B	2	9	18	LN-120516-01	18		-
L1 L1 L1 L1 L1 L1 L1 L1 Filler block REAR	314 0022 01 A	2	9		LN-120516-02	18		-
L1 L1 L1 L1 L1 L1 L1 L1 Bolts AN4-15A	261 0002 17 A	4	9	36	API-AN4-15A / Lot85681	36		-
L1 L1 L1 L1 L1 L1 L1 Washers	263 0001 17 A	8	9	72	API-NAS1149F0463P / Lot 76938/SA2023	72		-
L1 L1 L1 L1 L1 L1 L1 L1 Nuts	262 0001 17 A	4	9		API-MS21044N4 / Lot 76441/720591	36		-
Iceblade Assy			9			- 00		-
L1 L1 L1 L1 L1 L1 L1 L1 lceblade Assy	314 0002 15 A	4	9	36	LN-121127-01	36		-
L1 L1 L1 L1 L1 L1 L1 L1 Nuts	262 0001 17 A	8	9	72	API-MS21044N4 / Lot 76441/720591	72		_
L1 L1 L1 L1 L1 L1 L1 Washers	263 0001 17 A	8	9		API-NAS1149F0463P / Lot 76938/SA2023	72		_
Bags with pasts for customer assy of front U-Clips			9					+
L1 L1 L1 L1 L1 L1 L1 U-shaped Clips	314 0006 15 B	4	9	36	LN-121127-04	36		+
L1 L1 L1 L1 L2 L2 L2 L2 Slotted clip Supports	314 0007 15 B	8	9	72	LN-121127-02		LN-110323-04	32
L1 L1 L1 L1 L1 L1 L1 L1 Bolts AN4-16A	261 0003 17 A	4	9	36	Api-AN4-16A /Lot 75071/52542	36		- 02
L1 L1 L1 L1 L2 L2 L2 L2 Bolts AN4-15A	261 0002 17 A	4	9		API-AN4-15A / Lot85681	-	API-AN4-15A / Lot76514/55154	16
_1 L1 L1 L1 L1 L1 L1 L1 L1 nuts	262 0001 17 A	8 •	9		API-MS21044N4 / Lot 76441/720591	72	2	- 10
L1 L1 L1 L1 L1 L1 L1 L1 Washers	263 0001 17 A	16	9		API-NAS1149F0463P / Lot 76938/SA2023	144		_
L1 L1 L1 L1 L1 L1 L1 L1 Filler blocks 1/4"	314 0012 02 A	4	9		LN-120516-03	36		+
L1 L1 L1 L1 L1 L1 L1 L1 Filler blocks 1/8"	314 0015 01 A	4	9	36	LN-120516-04	36		+
L1 L1 L1 L1 L1 L1 L1 L1 Filler blocks 3/32"	314 0014 01 A	4.	9	36	LN-120516-05	36		+
Bags with pasrts for customer assy of LOW REAR L	-Clips		9			-		_
L1 L1 L1 L1 L1 L1 L1 L1 L0W U-shaped clips	314 0023 15 A	2	9	18	LN-121127-03	18		+
1 L1 L1 L1 L1 L1 L1 L1 L1 Slotted clip Supports	314 0007 15 B	4	9		LN-110323-04	36		-
L1 L1 L1 L1 L1 L1 L1 Washers	263 0001 17 A	8	11	CONTRACTOR NAMED IN CO.	API-NAS1149F0463P / Lot 76938/SA2023	88		-
						00		+

2013 02 03

* 2013 0410: [-ASS. 2013.04.10.01 NCR. 2013.04.10. nb.01

MCR. 2013. 04. (0. nb. 01

Missing 8 NOTS + MISSING 4 FILLERS 3/32" IN EACH OF 9 KITS.

PARTS ADDED TO LOTS IN STOCK.

PARTS SHIPED TO COUSTOMERS WHO ALREDDY HAD KIT IN STOCK (2 of 9)

N. EQUERON

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Qty	Part No.	Desc:	Lot number
PAICS		BP44 STREAMLINE BEARPAW ASSY	HTC-LNF- /20518 - 0/ HTC-LNF-yymmdd-seq
Include	s:		
	SEE ATTACHED E	excel sheet	LN-
-	FOR DETAILED	LIST OF COMPONENT	sLN-
	LLOT NOMBO		LN-
			LN-
			LN-
			LN-
	·		LN-

Inspection Plan

Aspect	Sampling	Inspection	Acceptance parameters
Α	100%.	PRESENCE OF ICEBLADES & L	ARGE REAR FILLER BLOCKS
В	1	4 OF DOCUMENTS	
С		ALL LN MATCH USED PAR	275
D		ALL COMPONENTS PRESENT +	
E	1	BOX APPICOPRIATES IDENT	FIEN
Inspection	n Plaň approved	by: N. Barlean	Date: 2012 06 08

Inspection Records

Ok = T + initials

				······································			
Date:	Quantity	A	В	C,	D,	E	Notes
2012 0601	11 PAIRS	Ja NI	SOUPE	ou on	ou ou	OKHR	
					7		

Release certificates issue

Release Certificates issued: yes	no	By: NATH	facis	BARBACI	Date: 201206 06
Comments:					
HTZ-LNF-1	120	518	- 0)	-06	-11
			-07		
			-03	-08	
			-04	-01	
			105	-10	



THIS KIT WAS ADDED TO ALL KITS IN STOCK ON OCT 22, 2013 LIST OF KITS: HTC-RC-120518-01 3+69+10

October 22, 2013

· HC-RC-130203-01 @9+@9+ @9+

Object:

Shorter Bolts for tighter fit on Bearpaws for R44/R66

To whom concerned.

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Original bolts package contains:

Front tip: AN4-15A
Center: AN4-16A

No need to adapt the rear U clip.

Extra bolts package contains:

Front tip: AN4-14A

Center: AN4-15A

No need to adapt the rear U clip.

Front tip: AN4-14A

Center: AN4-15A

LGA

Stags the Same

A NA - 14A

Should you have any question, do not hesitate to contact us.

Radi Karla

API LN 812721/22475

04x AN4-15A API LN 80136/4477

Nathalie Barbeau VP Commercial Affairs, Helitowcart (Vanair inc)

Letter_Previous_batches_Shorter_bolts_2013_10_22



314-0011-00 Rev D BearPaw Model BP44 Installation Instructions - R44

INSTALLATION

BearPaw Installation

Reference Documentation:

- [1] Robinson R44 Maintenance Manual & Instruction for Continued Airworthiness. RTR460.
- [2] Annex A BearPaw Assembly Drawings (112-0001-00-C & 112-0001-00-E)

Step 1: Helicopter Preparation

- · Ensure the helicopter is safe for maintenance;
- Lift the helicopter using the manufacturer recommended practice provided in Ref [1] to allow a clearance of the skid in the area of the aft cross tube of approximately 1 ½" (38mm);
- · Remove aft skid wearshoe & re-install the attaching screws.

Step 2: BearPaw Preparation

- With IceBlade Option: Install ice blades (Qty:2) under BearPaw pad as per drawing (112-0001-00) Ref [2];
- With IceBlade Option: Insert washer (Washer P/N 263-0001-17) through threaded part of the ice blade and secure with nut (P/N 262-0001-17);
- Position the BearPaw under skid at the aft intersection with the cross tube as per figure 1 with narrow edge-pointing forward.

Step 3: BearPaw Set Up

- Insert washers (P/N 263-0001-17) through all four front bolts: 2x(P/N261-0002-17) & 2x(261-0003-17);
- Insert bolts(P/N261-0002-17) & (261-0003-17) and washer (P/N 263-0001-17) through BearPaw pad as per drawing (112-0001-00) Ref [2]
- If Streamline model, then apply step 3.1. See step 3.1described below.
- Position the BearPaw pad under the skid
- Insert small filler blocks (P/N314-0012-01) & (P/N314-0014-01) at front of BearPaw& Insert filler blocks (P/N314-0015-01) at center of BearPaw as per drawing (112-0001-00) Ref [2];
- The use of filler blocks mentioned above may be increased, decreased, replaced or complemented by the use of washers (P/N 263-0001-17). Bolts (P/N261-0002-17) & (261-0003-17) may be replaced by longer or shorter AN4 bolts as required.
- Insert both U-shaped clips (P/N 314-0006-15) through bolts: 2x(P/N261-0002-17) & 2x(261-0003-17);
- Insert slotted clip supports (P/N 314-0007-15) through all four bolts. Position slotted clip supports with rounded edge toward helicopter skid;
- Insert washer (P/N 263-0001-17) & screw nuts (P/N 262-0001-17) for a tight fit. Max. torque on nuts 60 in.-lb.

Step 3.1: With the Streamline Version of the Bearpaw (P/N 112-0001-00-E)

- Insert washers (P/N 263-0001-17) through bolts (P/N261-0002-17)
- Insert bolts (P/N261-0002-17) and washer (P/N 263-0001-17) through the rear BearPaw pad as per drawing (112-0001-00-E) Ref [2]
- Insert rear filler block (P/N 314-0022-01) at the rear of BearPaw as per drawing (112-0001-00-E) Ref [2];
- Insert two washers (P/N 263-0001-17) per bolts (P/N261-0002-17) (four washers total)
- Insert Low U-shaped clip (P/N 314-0023-15) through bolts: (P/N261-0002-17) as per drawing (112-0001-00-E) Ref [2];
- Insert slotted clip supports (P/N 314-0007-15) through bolts. Position slotted clip supports with rounded edge toward helicopter skid;

Page 3 of 14



October 22, 2013

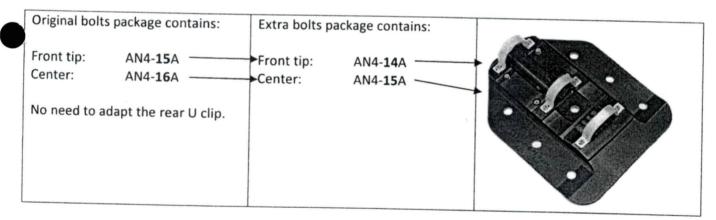
Object:

Shorter Bolts for tighter fit on Bearpaws for R44/R66

To whom concerned.

It has been brought to our attention that some cases call for shorter bolts to get the best fit in attaching the U-Clips to the skids. As mentioned in the installation instructions, the use of longer or shorter bolts may be adjusted as required (314-0011-00- Rev. D - p 3/14, Step 3).

We have thus included in this package, extra bolts to allow you to adapt installation to your preference. In most cases shorter bolts may be needed so the extra bolt package includes AN4-15A and AN4-14A:



Should you have any question, do not hesitate to contact us.

athalei Railean

Nathalie Barbeau VP Commercial Affairs,

Helitowcart (Vanair inc)

Letter_Previous_batches_Shorter_bolts_2013_10_22

HTC-RC-12	0518-01									
1 2 3 4	5 6 7 8 9 10 11	HTC-LNF-110920-01	P/N	Qté par paire		Qté totale pièces	1	Qty	Lot 2	Qt
Rear filler block	assv									
L1 L1 L1 L1 L1		1 Bp pads STREAMLINE	314 0001 01 B	2	11	22	LN-120516-01 (Batch 4)	22	 	-
L1 L1 L1 L1 L1	L1 L1 L1 L1 L1 L1	Filler block REAR	314 0022 01 A	2	11		LN-120516-02 (Batch 3)	22		-
L1 L2 L2 L2 L2			261 0002 17 A	4	11		Aircraft Spruce AN4-15A lot 40-15810		Aircraft Parts Int'l AN4-15A lot85681	40
L1 L1 L1 L1 L2	L2 L2 L2 L1 L1 L1		263 0001 17 A	8	11		Aircraft Spruce AN960-416 Lot 73384/V4700		API Lot 76938/SA2023	32
L1 L2 L2 L2 L2	L2 L2 L2 L2 L2 L2		262 0001 17 A	4	11		Aviall MS21044N4, Lot 74879/719464 mfg: Abbott, PO1507777		API MS21044N4 lot 77347	40
Iceblade Assy			1		11					
L1 L1 L1 L1 L1	L1 L1 L1 L1 L1 L1	I Iceblade Assy	314 0002 15 A	4	11	44	LN110323-05	44		+
L1 L2 L2 L2 L2 L1 L2 L2 L2 L2	L2 L	Nuts Washers	262 0001 17 A 263 0001 17 A	8	11 11		Aviall MS21044N4, Lot 74879/719464 mfg: Abbott, PO1507777 Aircraft Spruce AN960-416 Lot 73384/V4700	8	API MS21044N4 lot 77347 API Lot 76938/SA2023	80 80
Bags with pasts	for customer assy of	of front U-Clips			11					
L1 L1 L1 L1 L1			314 0006 15 B	4	11	44	LN110323-01			+
L1 L1 L1 L1 L1	L1 L1 L1 L1 L1 L1	Slotted clip Supports	314 0007 15 B	8	11		LN110323-04			+
L1 L1 L1 L1 L1	L1 L1 L1 L1 L1 L2	Bolts AN4-16A	261 0003 17 A	4	11		Aircraft Spruce AN4-16A lot 40-15556	40	API AN4-16A Lot 75071/52542	4
L1 L1 L1 L1 L2		Bolts AN4-15A	261 0002 17 A	4	11		Aircraft Spruce AN4-15A lot 40-15810		API AN4-15A Lot 85681	28
) L2 L1 L1 L1 L1 L1		262 0001 17 A	8	11	88	Aviall MS21044N4, Lot 74879/719464 mfg: Abbott, PO1507777	76	API MS21044N4 lot 77347	12
L1 L2 L2 L2 L2			263 0001 17 A	16	11		Aircraft Spruce AN960-416 Lot 73384/V4700	16	API Lot 76938/SA2023	160
	L1 L1 L1 L1 L1 L1		314 0012 02 A	4	11	44	Poyalto LN-120516-03	44		
	L1 L1 L1 L1 L1 L1	Filler blocks 1/8"	314 0015 01 A	4	11	44	Poyalto LN-120516-04	44		
L1 L1 L1 L1 L1	L1 L1 L1 L1 L1 L1	Filler blocks 3/32"	314 0014 01 A	4	11	44	Poyalto LN-120516-05	44		
Bags with pasrts	for customer assy	of LOW REAR U-Clips			11					
L1 L1 L1 L1 L1	L1 L1 L1 L1 L1 L1	LOW U-shaped clips	314 0023 15 A	2	11	22	LN-110323-02	22		+
L1 L1 L1 L1 L1	L1 L1 L1 L1 L1 L1	Slotted clip Supports	314 0007 15 B	4	11		LN110323-04	44		-
L1 L2 L2 L2 L2	L2 L2 L2 L2 L2 L2	Washers	263 0001 17 A	8	11		Aircraft Spruce AN960-416 Lot 73384/V4700	8	API Lot 76938/SA2023	80

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1	
Reviewed & approved by:		2006 09 09	

_	and inty data		
Qty	Part No.	Desc:	Lot number
PA:RS Include	1120001 001 s:	Desc: BP44 STREAMLINE BEAKPAW ASSY	HTC-LNF- / [09 20 - 0 / HTC-LNF-yymmdd-seq
	SEE ATTACHED EXC	CEL SHEET	LN-
		IST OF COMPONENTS	LN-
1	& LOT NUMBERS		LN-

Inspection Plan

Aspect	Sampling	Inspection Acceptance parameters
Α	100%	PRESENCE OF ICEBLADES a LARGE FILLER BLOCKS
В	1	PRESENCE OF DOCUMENTS
С		ALL LA MATCH USED PARTS
D		ALL COMPONENTS PRESENT & IN CORRECT 974
Е	1	BOX APPROPRIATELY INSTITUTED
Inspection	n Plan approve	ed by: 20. Harlean Date: 2011 09 20

Inspection Records

Ok = T + initials

Quantity	Α	В	С	D	Е	Notes
10 PAIRS	NOK NB	the orb	on It	JOK HS	100 N	
	Quantity 10 PAIRS	Quantity A 10 PAIRS WE	Quantity A B 10 Pairs WK NB SK WS	Quantity A B C 10 PAIRS WE NO OR A	Quantity A B C D 10 PAIRS WE BLOWS OR NO OK NO	Quantity A B C D E 10 PAIRS WE WE WE DOKEND OK NO

Release certificates issue

	N 1
Release Certificates issued: yes no	By: NATHALLE BARBERY Date: 2011 09 20
Comments:	200.00
HTC-LNF-110920-01	-06
- 02	-07
- 03	-08
-04	-09
-05	- 10# S RE- INSPECTED + ISSUED WEW
	DIE INSTECTED & 129 SED WEN
	FORM-I STER WE FOR
	FLIGHT TESTS FOR RGG
	SEE ATLACHED RE-INSPECTION
	25525 - 4 2 - 11 11

F40-02 htc RELEASE INSPECTION- General (2006 09 09).doc/QMS Manager approval: SOB 2014 01 07 (a second fine)

HTC-R HTC-R HTC-RC-110920-01								
1 2 3 4 5 6 7 8 9 10 HTC-LNF-110920-01	P/N	Qté par paire		Qté totale pièces	•	Qtv	Lot 2	Q
D								- Car
Rear filler block assy								+
L1 Bp pads STREAMLINE	314 0001 01 B	2	10	20	LN110329-01	20		_
L1 Filler block REAR	314 0022 01 A	2	10		LN-110324-02	20		+
L1 L1 L1 L1 L1 L1 L1 L1 L1 Bolts AN4-15A	261 0002 17 A	4	10	40	Aircraft Spruce AN4-15A lot 76013/38605	40		+
L1 L1 L1 L1 L1 L1 L1 L1 L1 Washers	263 0001 17 A	8	10	80	Aircraft Spruce AN960-416 Lot 73384/V3912	80		+-
L1 L1 L2 L2 L2 L2 L2 L2 L2 L2 Nuts	262 0001 17 A	4	10		Aircraft Spruce MS21044N4 / AN365-428A Lot no:	8	Aviall MS21044N4, Lot 74879/719464 mfg: Abbott, PO1507777	32
Iceblade Assy	1		10					
L1 L1 L1 L1 L1 L1 L1 L1 L1 lceblade Assy	314 0002 15 A	4	10	40	LN110323-05	40		
L1 L1 L2 L2 L2 L2 L2 L2 L2 L2 Nuts L1 Washers	262 0001 17 A 263 0001 17 A	8	10	80	Aircraft Spruce MS21044N4 AN365-428A Lot Aircraft Spruce AN960-416 Lot 74431/V7588	1	Aviall MS21044N4, Lot 74879/719464 mfg: Abbott, PO1507777	64
Bags with parts for customer assy of Front U-clips			10			00		+
L1 L1 L1 L1 L1 L1 L1 L1 L1 U-shaped Clips	314 0006 15 B	4	10	40	LN110323-01	+		+
L1 L1 L1 L1 L1 L1 L1 L1 L1 Slotted clip Supports	314 0007 15 B	8	10	80	LN110323-04	80		
L1 L1 L1 L1 L1 L1 L1 L1 L1 Bolts AN4-16A	261 0003 17 A	4	10		Aircraft Spruce AN4-16A lot 40-15556	40		-
L1 L1 L1 L1 L1 L1 L1 L1 L1 Bolts AN4-15A	261 0002 17 A	4	10	40	Aircraft Spruce AN4-15A lot 40-15810	40		-
L1 L1 L1 L1 L2 L1 L1 L1 L1 L2 nuts L1 Washers	262 0001 17 A 263 0001 17 A	8	10	80	Aircraft Spruce MS21044N4 AN365-428A lot 73831/719009	64	Aviall MS21044N4, Lot 74879/719464 mfg: Abbott, PO1507777	16
L1 L1 L1 L1 L1 L1 L1 L1 L1 Filler blocks 1/4"	314 0012 02 A	4	10	40	Aircraft Spruce AN960-416 Lot 74431/V7588	160		
L1 L1 L1 L1 L1 L1 L1 L2 L2 Filler blocks 1/8"	314 0012 02 A	4	10	40	Gr Polyfab LN-110628-01	40		
L1 Filler blocks 3/32"	314 0013 01 A	4	10		Gr Polyfab LN-110323-07	_	Gr Polyfab LN-110522-02	8
ET ET ET ET ET ET ET ET INET BIOCKS 3/32	314 0014 01 A	4	10	40	Gr Polyfab LN-110522-03	40		
Bags with pasrts for customer assy of LOW REAR U-Cli			10					
L1 LOW U-shaped clips	314 0023 15 A	2	10		LN-110323-02	20		
L1 Slotted clip Supports L1 Washers	314 0007 15 B	4	10		LN110323-04	40		
LILILILILILILILILILILIJWasners	263 0001 17 A	8	10	80	Aircraft Spruce AN960-416 lot 73384/V4700	80		
	5							

Brought Brek Front Airrorce

Ré-inspected Again 2014 81 07 (Pair HO BEEN BROUGHT BACK)

From Airport By LB

(For MR. MARTINECLI / ITACS)

HTC-RHTC-RHTC-RC-110920-01								T
1 2 3 4 5 6 7 8 9 10 <u>HTC-LNF-110920-01</u>	P/N	Qté par paire	Nb paires req	Qté totale pièces	Lot 1	Qty	Lot 2	Qty
						1		
Rear filler block assy						1		-
L1 L1 L1 L1 L1 L1 L1 L1 Bp pads STREAMLINE	314 0001 01 B	2	10	20	LN110329-01	20		-
L1 L1 L1 L1 L1 L1 L1 L1 L1 Si Filler block REAR	314 0022 01 A	2	10		LN-110324-02	20		+
L1 L1 L1 L1 L1 L1 L1 L1 Bolts AN4-15A	261 0002 17 A	4	10	40	Aircraft Spruce AN4-15A lot 76013/38605-80196/44-1-1	40	4x	+
L1 L1 L1 L1 L1 L1 L1 L1 Washers	263 0001 17 A	8	10	80	Aircraft Spruce AN960-416 Lot 73384/V3912	80	14	-
L1 L1 L2 L2 L2 L2 L2 L2 L2 Nuts	262 0001 17 A	4	10		Aircraft Spruce MS21044N4 / AN365-428A Lot no:	1	Aviall MS21044N4, Lot 74879/719464 mfg: Abbott, PO1507777	32
Iceblade Assy			10					
L1 L	314 0002 15 A	4	10	40	LN110323-05	40		-
L1 L1 L2 L2 L2 L2 L2 L2 L2 L2 L2 Nuts L1 Washers	262 0001 17 A	8	10	80	Aircraft Spruce MS21044N4 AN365-428A Lot	16	Aviall MS21044N4, Lot 74879/719464 mfg: Abbott, PO1507777	64
Life i Cife i Ci	263 0001 17 A	8	10	80	Aircraft Spruce AN960-416 Lot 74431/V7588	80		
Bags with parts for customer assy of Front U-clips			10					
L1 L1 L1 L1 L1 L1 L1 L1 L1 U-shaped Clips	314 0006 15 B	4	10	40	LN110323-01			-
L1 L1 L1 L1 L1 L1 L1 L1 L1 Slotted clip Supports	314 0000 15 B	8	10		LN110323-01			
L1 L1 L1 L1 L1 L1 L1 L1 L1 Bolts AN4-16A	261 0003 17 A	4	10			80		
L1 Bolts AN4-15A	261 0003 17 A		10	40	Aircraft Spruce AN4-16A lot-40-15556 5805 a 31583	C#6.	4×	
ET ET ET ET ET ET ET VI BOIRS AN4-15A	201 0002 17 A	4	10	40	Aircraft Spruce AN4-15A lot 40-15810 40 15810	প্রস্থ	4x	
L1 L1 L1 L1 L2 L1 L1 L1 L1 L2 nuts	262 0001 17 A	8	10	80	Aircraft Spruce MS21044N4 AN365-428A lot 73831/719009		Aviall MS21044N4, Lot 74879/719464 mfg: Abbott, PO1507777	16
L1 L1 L1 L1 L1 L1 L1 L1 Washers	263 0001 17 A	16	10	160	Aircraft Spruce AN960-416 Lot 74431/V7588	160		
L1 L1 L1 L1 L1 L1 L1 L1 L1 Filler blocks 1/4"	314 0012 02 A	4	10		Gr Polyfab LN-110628-01	40		
L1 L1 L1 L1 L1 L1 L1 L2 N2 Filler blocks 1/8"	314 0015 01 A	4	10	40	Gr Polyfab LN-110323-07	32	Gr Polyfab LN-110522-02	8
L1 L1 L1 L1 L1 L1 L1 L1 L1 Filler blocks 3/32"	314 0014 01 A	4	10	40	Gr Polyfab LN-110522-03	40	and the same of th	+
							The second secon	+
Bags with pasrts for customer assy of LOW REAR U-CI			10					
L1 L1 L1 L1 L1 L1 L1 L1 L1 LOW U-shaped clips	314 0023 15 A	2	10	20	LN-110323-02	20	The state of the s	-
L1 L1 L1 L1 L1 L1 L1 L1 L1 Slotted clip Supports	314 0007 15 B	4	10		LN110323-04	40	and the second of the second o	-
L1 L1 L1 L1 L1 L1 L1 L1 L1 Washers	263 0001 17 A	8	10	80	Aircraft Spruce AN960-416 lot 73384/V4700	80		+
						1		-



January 7, 2014

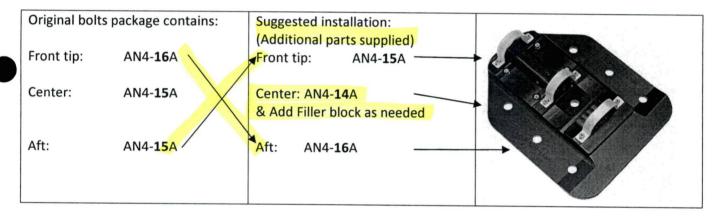
Object:

Shorter Bolts for tighter fit on Bearpaws for R44/R66

To whom concerned,

It has been brought to our attention that some cases call for slightly longer or shorter bolts to get the best fit in attaching the U-Clips to the skids. As mentioned in the installation instructions, the use of longer or shorter bolts may be adjusted as required (314-0011-00- Rev. D - p 3/14, Step 3).

We have thus included in this package, extra bolts to allow you to adapt installation to your preference. In most cases shorter bolts may be needed so the extra bolt package includes AN4-14A:



Should you have any question, do not hesitate to contact us.

Nathalie Barbeau VP Commercial Affairs,

Helitowcart (Vanair inc)

Letter_Previous_batches_Shorter_bolts_2014_01_07_(3rdVers)



Authorized Release Certificate

T						
	ving National Aviation Authority / Country ort Canada	,	2. Authorized Form One	Release Certificate		3.Form Tracking No.
		,	Tom one			HTC-RC110920-10
	ved Organization Name & Address:		5.Work Order	/Contract/Invoice		
	cart (Vanair inc.) Nicolas, Levis, Quebec, Canada G7A 5					
000, 01	ficolas, Levis, Quebec, Callada GIA o	V 0	F4810	Giovanni Martinelli,	Milan, Italy	
6. Item	7.Description	8.Part no.	9.Qty	10. Serial / Lot no.		11.Status / work
1	Helitowcart - BP44 BearPaw	HTC-MDL-BP-44-1000 112-0001-00	2	HTC-LNF-110920-01		New
12. Rema	arks			-		
Canada: United St	Transport Canada Approved matates FAA STC no. SR02432NY	nanufacturer no 27-06, Transport Canada S	STC no. SH06-7	24		
	rtifies that the items identified	Approved design data and are in	14a.			
	ere manufactured in conformity	condition for safe operation	Certifies th	that unless otherwise	O CAR 571.10 I	Maintenance release.
to:		Non-approved design data appointed	identified in	block 12, the work		
	0	Non approved design data specified in block 12.	block 12 h	has been performed in	Other regulati	ion enceified in block 12
		compliance with the Canadian Aviation Other regulation specified in block 12. Regulations				
13b. Sigr	iature	13c. Approved Organization. Number	14b. Signati	ure	14c Approve	d Organization Number
~). Saleau	Inspector no: 001 / STC no SH06-24 Approved manufacturer no 27-06				
13d. Nan		13e. Date (dd/mm/yyyy)	14d. Name		14e. Date (dd	I/mm/yyyy)
Nathalle	Barbeau, Quality Manager	07/01/2014				

Ref: Transport Canada: Form One

- 1- This document does not constitute authority to install the part.
- 2- Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.
- 3- Statements 13a & 14a do not constitute installation certification. In all cases the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown

F40-01 HTC-RC-110920-10_BP44_(F4810_Giovanni_Martinelli_Italy)(14_01_07) Form1-CANCELLED.doc/QMS Manager approval:



Authorized Release Certificate .

Approving National Aviation Authority / Country Transport Canada				Release Certificate		3.Form Tracking No. HTC-RC-11092010			
Approved Organization Name & Address: Helitowcart (Vanair inc.) 877A Alphonse-Desrochers, St-Nicolas, Levis, Quebec, Canada G7A 5K6				5. Work Order/Contract/Invoice 4734 Carol Lagree, Se, Se					
6. Item	7.Description	8.Part no.	9.Qty	10. Serial / Lot no.		11.Status / work			
1	Helitowcart - BP44 BearPaw For Robinson 44	HTC-MDL-BP-44-1000 112-0001-00	2	HTC-LNF-//0920.0	(New			
2	Helitowcart – BP350 BearPaw For Astar 350/355	HTC-MDL-BP350/355-1000_A 112-0002-00	2	HTC-LNF		New			
3 -	Helitowcart – BP130 BearPaw For Eurocopter EC130	HTC-MDL-BP-EC130-1000_A 112-0005-00	2	HTC-LNF		New			
12. Rem Canada: United S	Transport Canada Approved m	anufacturer no 27-06, Transport Canada	STC no. SH06-	24					
11	rtifies that the items identified ere manufactured in conformity	Approved design data and are in condition for safe operation	14a. Certifies that unless otherwise O CAR 571.10 Maintenance release. specified in block 12, the work						
	0	Non approved design data specified in block 12.	identified in block 11 and described in block 12 has been performed in compliance with the Canadian Aviation Regulations Other regulation specified in			on specified in block 12.			
13b. Sig	Darleau	13c. Approved Organization. Number	14b. Signat	ture	14c. Approved	d Organization Number			
13d. Nar		13e. Date (dd/mm/yyyy)	14d. Name		14e. Date (dd.	/mm/yyyy)			

Ref: Transport Canada: Form One

- 1- This document does not constitute authority to install the part.
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- 3- Statements 13a & 14a do not constitute installation certification. In all cases the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown

F40-01 htc AUTHORIZED RELEASE CERTIFICATE (2011 12 02)BP-model.doc/ QMS Manager approval:

(PROJOR BP POUR RGG)

VAIRE UTILISÉE POUR ANALYSES PLA SUITETE à ENSVITE

POUR LES TESTS EN VOL. PAIRE RÉ-INSPECTÉE à 100%.

MANQUAIT BOULONS AU RETOUR POUR INSPECTION. REMPLACES.

VOIR NOUV. NO. LOTS.

Naflielle Barlow HTC-RHTC-RHTC-RC-110920-01 Qté Nb HTC-LNF-110920-01 par paires totale 1 2 3 4 5 6 7 8 9 10 paire reg pièces Lot 1 Qtv Lot 2 Qtv Rear filler block assy L1 L1 L1 L1 L1 L1 L1 L1 L1 Bp pads STREAMLINE 314 0001 01 B 10 20 LN110329-01 L1 L1 L1 L1 L1 L1 L1 L1 L1 W Filler block REAR 314 0022 01 A 10 20 LN-110324-02 20 L1 L1 L1 L1 L1 L1 L1 L1 L1 Bolts AN4-15A 261 0002 17 A Aircraft Spruce AN4-15A let 76013/38605 20196/4477 4 4 10 40 L1 L1 L1 L1 L1 L1 L1 L1 L1 Washers 263 0001 17 A 368 10 Aircraft Spruce AN960-416 Lot 73384/V3912 Aviall MS21044N4, Lot 74879/719464 L1 L1 L2 L2 L2 L2 L2 L2 L2 Nuts 262 0001 17 A 10 40 Aircraft Spruce MS21044N4 / AN365-428A Lot no: 8 Imfg: Abbott, PO1507777 32 Iceblade Assy 10 L1 L1 L1 L1 L1 L1 L1 L1 L1 liceblade Assy 314 0002 15 A 10 40 LN110323-05 Aviall MS21044N4, Lot 74879/719464 L1 L1 L2 L2 L2 L2 L2 L2 L2 Nuts 262 0001 17 A 10 Aircraft Spruce MS21044N4 AN365-428A Lot 16 mfg: Abbott, PO1507777 64 L1 L1 L1 L1 L1 L1 L1 L1 L1 Washers 263 0001 17 A 10 Aircraft Spruce AN960-416 Lot 74431/V7588 Bags with parts for customer assy of Front U-clips 10 L1 L1 L1 L1 L1 L1 L1 L1 L1 U-shaped Clips 314 0006 15 B 10 LN110323-01 L1 L1 L1 L1 L1 L1 L1 L1 L1 Slotted clip Supports 314 0007 15 B 10 80 LN110323-04 L1 L1 L1 L1 L1 L1 L1 L1 L1 Bolts AN4-16A Aircraft Spruce AN4-16A lot 40-15556 5805331582 40 Aircraft Spruce AN4-15A lot 40-15816 8127-1/229-15 40 261 0003 17 A 10 40 Ax L1 L1 L1 L1 L1 L1 L1 L1 L1 Bolts AN4 15A (AA 261 0002 17 A 10 Aviall MS21044N4, Lot 74879/719464 L1 L1 L1 L2 L1 L1 L1 L1 L1 L1 l2 nuts 262 0001 17 A 10 Aircraft Spruce MS21044N4 AN365-428A lot 73831/719009 64 mfg: Abbott, PO1507777 16 L1 L1 L1 L1 L1 L1 L1 L1 Washers 263 0001 17 A 10 Aircraft Spruce AN960-416 Lot 74431/V7588 160 160 L1 Filler blocks 1/4" Gr Polyfab LN-110628-01 314 0012 02 A 4 10 40 L1 L1 L1 L1 L1 L1 L1 L2 L2 Filler blocks 1/8" 314 0015 01 A 10 Gr Polyfab LN-110323-07 40 32 Gr Polyfab LN-110522-02 L1 L1 L1 L1 L1 L1 L1 L1 L1 Filler blocks 3/32" 314 0014 01 A Gr Polyfab LN-110522-03 10 Bags with pasrts for customer assy of LOW REAR U-Clips L1 LOW U-shaped clips 314 0023 15 A 10 20 LN-110323-02 L1 L1 L1 L1 L1 L1 L1 L1 L1 V1 Slotted clip Supports 314 0007 15 B 10 40 LN110323-04 40 L1 L1 L1 L1 L1 L1 L1 L1 L1 Washers 263 0001 17 A 10 Aircraft Spruce AN960-416 lot 73384/V4700

20 Sept 2011



Authorized Release Certificate

Approving National Aviation Authority / Country				Release Certificate		3.Form Tracking No.
Transport Canada						HTC-RC-//0920 - 10
	ved Organization Name & Address:		5.Work Order	/Contract/Invoice		
	cart (Vanair inc.)	Ouches Canada CZA EVC				
877A AI	phonse-Desrochers, St-Nicolas, Levis,	, Quebec, Canada G7A 5N6				
6. Item	7.Description	8.Part no.	9.Qty	10. Serial / Lot no.		11.Status / work
1	Helitowcart - BP44 BearPaw For Robinson 44	HTC-MDL-BP-44-1000 112-0001-00	2	HTC-LNF-// 4720-91	e e	New
2	Helitowcart - BP350 BearPaw For Astar 350/355	HTC-MDL-BR350/355-1000_A 112-0002-00	2	HTC-LNF		New
		P				
		Deliga				
		A	-			
12. Rem	arks		ROUM	0.4		
Canada: United S	Transport Canada Approved m	anufacturer no 27-06, Transport Canada	STO no. SHUG	-24		
United S	iales FAA STC 110. SR02432NT	_ A	J. 66	Lag.		
			0	16575		
			1,6	~		
	rtifies that the items identified	Approved design data and are in	14a)			
	ere manufactured in conformity O	condition for safe operation		that unless otherwise	O CAR 571.10 N	Maintenance release.
to:			identified in	block 11 and described in		
	0	Non approved design data specified in block 12.	block 12	has been performed in	Other regulation	ion specified in block 12.
	U	IN DIOCK 12.		with the Canadian Aviation	Other regulati	off specified in block 12.
13b. Sig	nature	13c. Approved Organization. Number	Regulations 14b. Signa		Mc Approved	d Organization Number
100. Olg	Railean	Toc. Approved Organization. Number	145. Olgrid	nure —	ТАУРРООС	2 Organization Names
13d. Nar		13e. Date (dd/mm/yyyy)	14d. Name		14e. Date (dd	/mm/yyyy)

Ref: Transport Canada: Form One

- 1- This document does not constitute authority to install the part.
- 2- Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.
- 3- Statements 13a & 14a do not constitute installation certification. In all cases the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown

F40-01 htc AUTHORIZED RELEASE CERTIFICATE (2009 06 02).doc / QMS Manager approval:

PRÉTÉE À LB

BURTESTS DEVIPT

BPGG

*A RÉINSTECTER

AVANT DE REMETTIRE

EN CIRCULATION

2013 05 31

- Paine Envoyée à Mirko Roela Poor.
Projet RP44

Preciet à Mirro
Doit Revenin.



314-0011-00 Rev D BearPaw Model BP44 Installation Instructions - R44

INSTALLATION

BearPaw Installation

Reference Documentation:

[1] Robinson R44 - Maintenance Manual & Instruction for Continued Airworthiness. RTR460.

[2] Annex A – BearPaw Assembly Drawings (112-0001-00-C & 112-0001-00-E)

Step 1: Helicopter Preparation

Ensure the helicopter is safe for maintenance;

- Lift the helicopter using the manufacturer recommended practice provided in Ref [1] to allow a clearance of the skid in the area of the aft cross tube of approximately 1 ½" (38mm);
- Remove aft skid wearshoe & re-install the attaching screws.

Step 2: BearPaw Preparation

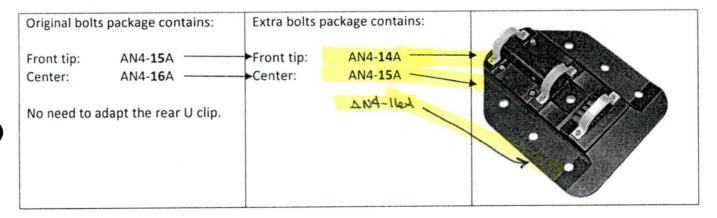
- With IceBlade Option: Install ice blades (Qty:2) under BearPaw pad as per drawing (112-0001-00) Ref [2]:
- With IceBlade Option: Insert washer (Washer P/N 263-0001-17) through threaded part of the ice blade and secure with nut (P/N 262-0001-17);
- Position the BearPaw under skid at the aft intersection with the cross tube as per figure 1 with narrow edge pointing forward.

Step 3: BearPaw Set Up

- Insert washers (P/N 263-0001-17) through all four front bolts: 2x(P/N261-0002-17) & 2x(261-0003-17):
- Insert bolts(P/N261-0002-17) & (261-0003-17) and washer (P/N 263-0001-17) through BearPaw pad as per drawing (112-0001-00) Ref [2]
- If Streamline model, then apply step 3.1. See step 3.1described below.
- · Position the BearPaw pad under the skid
- Insert small filler blocks (P/N314-0012-01) & (P/N314-0014-01) at front of BearPaw& Insert filler blocks (P/N314-0015-01) at center of BearPaw as per drawing (112-0001-00) Ref [2];
- The use of filler blocks mentioned above may be increased, decreased, replaced or complemented by the use of washers (P/N 263-0001-17). Bolts (P/N261-0002-17) & (261-0003-17) may be replaced by longer or shorter AN4 bolts as required.

It has been brought to our attention that some cases call for shorter bolts to get the best fit in attaching the U-Clips to the skids. As mentioned in the installation instructions, the use of longer or shorter bolts may be adjusted as required (314-0011-00- Rev. D - p 3/14, Step 3).

We have thus included in this package, extra bolts to allow you to adapt installation to your preference. In most cases shorter bolts may be needed so the extra bolt package includes AN4-15A and AN4-14A:



Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

	Part No.	Docc:	I of number
Qty		Desc:	Lot number
A PAIDS	112 0001 00)	BRAA STREAMLINE BEARDAW ASS')	HTC-LNF- 1004 17 - 01 HTC-LNF-yymmdd-seq
Include			
	SEE AMACHED 6	execl sheet	LN-
7	OR DETAILED LIST		LN-
0	F COMPONENTS & C	or NUMBERS	LN-
			LN-

Inspection Plan

	T =		
Aspect	Sampling	Inspection	Acceptance parameters
Α	100%	PRESENCE OF ICEBCADES & FICLER	BOOKS
В	100%	PRESENCE OF DOCUMENTS	
С	100%	ALL IN MATCH WITH USED PA	ats
D	100%	ALC COMPONENTS PRESENT & IN	CORRECT GHY
E	100%	BOX APPROPRIATECT I DENTIFIED	
Inspection	n Plan approve	ed by: D. Barleger	Date: 2011 04 17

Inspection Records

Ok = T + initials

Quantity	Α	В	С	D	E	Notes
4 PAIRS	OK MB	OH WR	OK WB	OK NIS	de NB	
	 					
	 					
	 					
	 					
	Quantity 4 PAiles	Quantity A A PAIRS OR MB	Quantity A B A PAIRS OF HIS BUNK	Quantity A B C A PAIRS OF M3 SHOWN TOK WAY	Quantity A B C D A PAIRS OF HIS TOK WESTON NIS	Quantity A B C D E A PAigs of HB or was or was or wis or wis

_			
\mathbf{Q}	0200	certificates	CILDSI S
10	Casc	Certificates	3 133UC

Release Certificates issued: yes no By:	Date: 201 04 17
Comments:	
- icellades & Kear filler block included	but not installed.
HTE-LNF- 110417-01	
-02	
-03	
-04	

НТС	-RC	-110417-01				T		T	T			
1 2	3 4	HTC-LNF-110417-01	P/N	Qté par paire		Qté totale pièces		Qty	Lot 2	Qty	Lot 3	Qty
Poor	illor b	lock assy										
1111	1111	Bp pads STREAMLINE	314 0001 01 B	-	4	_	LN110324-01	-				
		Filler block REAR	314 0001 01 B	2	4	8	LN-110324-01 LN-110324-02	8				
		Bolts AN4-15A	261 0002 17 A	_	4	16		8				
-1	LILI	BOILS AIN4-15A	261 0002 17 A	4	4	16	Aircraft Spruce AN4-15A lot 74412/14420	16				
L1 L1	1111	Nute	262 0001 17 4			40	Aircraft Spruce MS21044N4 / AN365-428A Lot no:				1	
		Washers	262 0001 17 A	4	4	16	73831/718601	16				
Icebla			263 0001 17 A	8	4	32	Aircraft Spruce AN960-416 Lot 73384/V3912	32				
		Iceblade Assy	214 0002 45 4	+ .	4	40	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.5				
L1 L1			314 0002 15 A	4	4	16	LN100316-01	16				
			262 0001 17 A	8	4		Aircraft Spruce MS21044N4 AN365-428A Lot 73831/718601	32				
		Washers	263 0001 17 A	8	4	32	Aircraft Spruce AN960-416 Lot 73384/V3912	32				
		arts for customer assy of			4							
L1 L1	L1 L1	U-shaped Clips	314 0006 15 B	4	4	16	LN081202-03 ***Added filler blocks see bottom of this chart					
L1 L1	L1 L1	Slotted clip Supports	314 0007 15 B	8	4		LN110323-04	32				
		Bolts AN4-16A	261 0003 17 A	4	4	16	Aircraft Spruce AN4-16A lot 40-15556	16				
L1 L1	L1 L1	Bolts AN4-15A	261 0002 17 A	4	4	16	Aircraft Spruce AN4-15A lot 74412/14420	16				
L1 L1			262 0001 17 A	8	4	32	Aircraft Spruce MS21044N4 AN365-428A lot 73831/718601	32				
		Washers	263 0001 17 A	16	4	64	Aircraft Spruce AN960-416 lot 83384/V3912	64			1	
L1 L1	L1 L1	Filler blocks 1/4"	314 0012 02 A	4	4		Gr Polyfab LN-110323-06	16				
L1 L1	L1 L1	Filler blocks 1/8"	314 0015 01 A	4	4	16	Gr Polyfab LN-110323-07	16				
L1 L1	L1 L1		314 0014 01 A	4	4		Gr Polyfab LN-110215-01	16			†	
Bags	with pa	asrts for customer assy o	f LOW REAR U-CI	ips	4		•				 	
L1 L1	L1 L1		314 0023 15 A	2	4	8	LN-110323-02	8				
L1 L1	L1 L1	Bolts AN4-15A	261 0002 17 A	4	4	16	Aircraft Spruce AN4-15A lot 74412/14420	16				
L1 L1	L1 L1	Slotted clip Supports	314 0007 15 B	4	4		LN110323-04	16			1	
		Washers	263 0001 17 A	8	4	32	Aircraft Spruce AN960-416 lot 73384/V3912	32				
Bags v	with E	xtra Filler Blocks & Wash	ers	-	4		***Added filler blocks for U-clips bent slightly off and accepted by derogation / NCR 2010-03-17-nb-01 & ASS 2010-03-17-01					
			314 0015 01 A	4	4	16	Gr Polyfab LN-110323-07	16				
			314 0014 01 A	8	4		Gr Polyfab LN-110215-01	32				
na na	na na	Washers	263 0001 17 A									

S. Radian



March 17th, 2010

Object:

BearPaws BP44 - Tightness Adjustment

To whom concerned

It has been brought to our attention that some bearpaw assemblies were not tight enough when all components were installed as prescribed in the instruction.

Following our internal inquiry into the matter, we have discovered that some U-shaped clips have been bent to a dimension that is slightly off, thus resulting in a higher U-shaped dimension.

In order to obtain the desired tightness, we have included in this package thinner Filler blocks and have indicated in the chart below suggested combinations of Filler blocks.

For your information, the Installation instruction indicates on page 3/14 at Step 3 "BearPaw Set Up" that you may replace Filler blocks with washers as well if this is more convenient to you.

Suggestion for Filler block combination:

Actual :	Replace by :
Front	Front
1 x Filler Block 3/32" (2.38mm) 1 x Filler Block 1/4" (6.27mm)	2 x Filler Blocks 3/32" (each 2.38mm) Or 1 x Filler Block 1/8" (3,175mm)
Rear	Rear:
1x Filler Block 1/8" (3.175mm)	1 x Filler Block 3/32" (2.38mm) Or Install no filler block

We invite you to contact us should you require further information.

Kind Regards.

8 × 3/32" filler block

Nathalie Barbeau

Quality Assurance Director

Helitowcart

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Qty	Part No.	Desc:	Lot number
Paires Include	112 0001 00D	BP44 STREAMCINE BEARPAW ASSY	HTC-LNF- 110416 - 01 HTC-LNF-yymmdd-seq
	See atlacked le for detailed le of Components o	excelebact	LN-
	on detailed le	d	LN-
0	of Components o	lotnombres	LN-
			LN-
	100		LN-
			LN-
			LN-

Inspection Plan

	ion nan		
Aspect	Sampling	Inspection	Acceptance parameters
Α	100%	PRESENCE OF ICERLADES & FILLER	
В	100%	PRESENCE OF DOCUMENTS	
С	100%	ALL IN FOR BATCH MATCH US	EP PARTS
D	100%	ALL COMPONEIUTS PRESENT d'IN	
E	100%	BOX APPROPRIATELY IDENTIFIED	7.
Inspectio	n Plan approve	d by:	Date:

Inspection Records

Ok = T + initials

Date:	Quantity	Α	В	С	D	E	Notes
2011 04 16	6 PHIRS'	OR DE	GK OB	Tok DB-	da DB	JOH NB	

Re	lease	certificate	es issue

Nelease certificates issue	
Release Certificates issued: yes no By: No Boulean Date: Zoll. 04.16	B
Comments:	
ice blader a Rea filler block included but not installed.	
HTC-LNF-110416-01	
- 02	
-03	
-04	
-05	



March 17th, 2010

Object:

BearPaws BP44 - Tightness Adjustment

To whom concerned

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Suggestion for Filler block combination:

Actual :	Replace by :
Front	Front
1 x Filler Block 3/32" (2.38mm) 1 x Filler Block 1/4" (6.27mm)	2 x Filler Blocks 3/32" (each 2.38mm) Or 1 x Filler Block 1/8" (3,175mm)
Rear	Rear:
1x Filler Block 1/8" (3.175mm)	1 x Filler Block 3/32" (2.38mm) Or Install no filler block

We invite you to contact us should you require further information.

Kind Regards,

8 x 3/32° fille blocks

Nathalie Barbeau

Quality Assurance Director

Helitowcart

HTC-R	C-110416	-01										
1 2	3 4 5	HTC-LNF-110416-01	P/N	Qté par paire	Nb paires req	Qté totale pièces	Lot 1	Qty	Lot 2	Qty	Lot 3	Qty
Door fil	ller block	1		-				-				-
11111	1 1 1 1 1	L1 Bp pads STREAMLINE	314 0001 01 B	2	6	12	LN-110324-01	12		-		-
11111	1 1 1 1 1	L1 Filler block REAR	314 0001 01 B	2	6		LN-110324-01 LN-110324-02	12		-		-
LILIL	-1 -1 -1	LI FIIIEI DIOCK REAR	314 0022 01 A		0	12	LIN-110324-02	12	M&M aerospace hardware			+
L1 L1 L	.1 L1 L2	L3 Bolts AN4-15A	261 0002 17 A	4	6	24	M&M aerospace hardware AN4-15A P/o4500033156 lot 10357 mfrname airfasco	20	AN4-15A P/o4500033156 lot 10357 mfrname airfasco	2	Aircraft Spruce AN4-15A lot 74412/14420	2
							Aircraft Spruce MS21044N4 / AN365-428A Lot no:					
	.1 L1 L1		262 0001 17 A	4	6		73831/718601	24				
		_1 Washers	263 0001 17 A	8	6	48	Aircraft Spruce AN960-416 Lot 73384/V3912	48				
	le Assy											
L1 L1 L	1 L1 L1	_1 Iceblade Assy	314 0002 15 A	4	6	24	LN100316-01	24				
	.1 L1 L1		262 0001 17 A	8	6	48	Aircraft Spruce MS21044N4 AN365-428A Lot 73831/718601	48				
		_1 Washers	263 0001 17 A	8	6	48	Aircraft Spruce AN960-416 Lot 73384/V3912	48				
Bags w	ith parts	for customer assy of Front	U-clips									
L1 L1 L	1 L1 L1	_1 U-shaped Clips	314 0006 15 B	4	6		LN081202-03 ***Added filler blocks see bottom of this chart	24				
L1 L1 L	.1 L1 L1	_1 Slotted clip Supports	314 0007 15 B	8	6	48	LN100315-01	48				
											Aircraft Spruce AN4-16A lot	
		_3 Bolts AN4-16A	261 0003 17 A	4	6		API aerospace products AN4-16A lot 66322/38030		API AN4-16A lot 66410/6472	4	40-15556	4
L1 L1 L	.1 L1 L1	_1 Bolts AN4-15A	261 0002 17 A	4	6	24	Aircraft Spruce AN4-15A lot 74412/14420	24				
	.1 L1 L1		262 0001 17 A	8	6		Aircraft Spruce MS21044N4 AN365-428A lot 73831/718601	48				
		_1 Washers	263 0001 17 A	16	6		Aircraft Spruce AN960-416 lot 83384/V3912	96				
		_1 Filler blocks 1/4"	314 0012 02 A	4	6		Gr Polyfab LN-110323-06	24				
L1 L1 L	.1 L1 L1	_1 Filler blocks 1/8"	314 0015 01 A	4	6		Gr Polyfab LN-110323-07	24				
		Filler blocks 3/32"	314 0014 01 A	4	6	24	Gr Polyfab LN-110215-01	24				
		for customer assy of LOW										
		_1 LOW U-shaped clips	314 0023 15 A	2	6		LN-110323-02	12				
		_1 Bolts AN4-15A	261 0002 17 A	4	6		Aircraft Spruce AN4-15A lot 74412/14420	24				
		_1 Slotted clip Supports	314 0007 15 B	4	6		LN100315-01	24				
L1 L1 L	.1 L1 L1 I	_1 Washers	263 0001 17 A	8	6	48	Aircraft Spruce AN960-416 lot 73384/V3912	48				
		Filler Blocks & Washers					***Added filler blocks for U-clips bent slightly off and accepted by derogation / NCR 2010-03-17-nb-01 & ASS 2010-03-17-01					
		1 Filler blocks 1/8"	314 0015 01 A	4	6	24	Gr Polyfab LN-110323-07					
		1 Filler blocks 3/32"	314 0014 01 A	8	6	48	Gr Polyfab LN-110215-01					
		na Washers	263 0001 17 A					1				

D.15aclar 2011 04 16

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Qty	Part No.	Desc:	Lot number
	112 0001 00)	BP44 STREAMLINE BEARPAW ASS'Y	HTC-LNF- 912 (0 - 0/ HTC-LNF-yymmdd-seq
Include	S:		
	See attacher	Leycel chart	LN-
	for detailed		LN-
	Components	+ lot numbers	LN-
			LN-
		25	LN-
			LN-
			LN-

Inspection Plan

Aspect	Sampling	Inspection	Acceptance parameters
Α	100%	PRESENCE OF ICEPLANES L'FILLER	PLOCK.
В	100%	PRESENCE OF DOCUMENTS	
С	100%	ALL LN FOR BATCH MATCH U	SED PARIS
D	100%	ALL COMPONENTS PRESENT & 11	
E	100%	BOX APPROPRIATELY IDEATH	PIED
Inspectio	n Plan approved	by: Da	ate:

Inspection Records Ok = T+initials

Date:	Quantity	А	В	C,	D	Е	Notes
209 12 10	19 PAIRS	of HB	OLNB	JR MB	ou pp	THE NB	
2010 05 03	19 Mirs	ADDED	REAR L	ow U-C	LIP ON A	LL PAIR	S SEE ATTACHED RECO
		AS RE	2 ECC	#6/5	ENT KIT	TO CLESTO	MERS WHERE APPLICABLE
							•

_						
h	₹el	ease	certi	rica	tes	issue

Release Certificates issued:	yes	no	By:	D. Dart	an	Date:	09	12	10
Comments:									

RELEASE CERTIF. NOS: HTC-RC-091210-01 TO 19

NO 01,02,03,04,00 THAT WERE ALREADY ON TERNAIN. SENT WITH OPTIONDER 300 J. CLIP FOR REAR.

KIT./PB/SEE ECO#6.

HT	C-R	C-0	912	10-x	x(b)										T														
1	2	3	4 5	6	7 8	9	10	11	12	13	14	15	16	17	18 1	19	HTC-LNF-091210-01		Qté par paire	paires	Qté totale pièces	Lot 1	0.1	1.5	Lot2			_ot3	
Res	r fill	ler l	oloci	(255	v	+		+	+	-	-	+	+	+	+	+			-	-			Qty	Info	1	Qty	Into	Q	Ir Qty to
			1			V	J	1	1	J	J	J	J.	J.	1	B	p pads STREAMLINE	314 0001 01 B	2	19	38	LN-091209-01	38	-		-	+	+	20
1	VV		V	1	V			1			1			i,			iller block REAR	314-0022-01 A	2	-		LN-091209-02	38			-	+	+	38
1	1 1	V	V	1	V	1	1	V.	,	J	V	-	V.	j,			Bolts AN4-13A	261 0004 17 A	4	19		L\N 66213/37961 4500089804	76			+-	+	++	76
1	1 1	1	1	1	1	+-	-	V.	-	1	1	-	1	j,			luts	262 0001 17 A	4	19		API/4500068971 / L/N68222/716444	76			-		+	76 76
1	VV	1	V	1	1		-	-	-	-	-	-	-	-			Vashers	263 0001 17 A	8	19		NAS1149F0463P/L/N 71070/U2947	152			+-	+	+	152
Icel	olade	e A	ssy:										_	Ť	+	-			_	19		10.01140104001721171010702047	102					+	1 102
1	VV	V	V	1	1	1	1	1	V .	V	1	1	V .	V .	1	Ic	ceblade assy	314 0002 15 A	4	19	76	L/N 090603-01	76				+	+	76
1	VV	V	V												IV		luts	262 0001 17 A	8	19		API/4500068971 / L/N68222/716444	152	_		1	+	+	152
1	VV	V	V	1	1	V	1	1	1	1	1	1	1	V 1	IV	w	Vashers	263 0001 17 A	8	19		NAS1149F0463P/L/N 71070/U2947	152			1		++	152
Bag	s w	ith	parts	for	cust	ome	er as	ssy	of I	Fro	nt l	J-C	lips	3:	1					19								+	1
1	11	V	V	1	1	V	1	1	1	1	1	1	1	V ,	1	U	I-Shaped Clips	314 0006 15 B	4	19	76	L/N-081202	76					+	76
1	1	V	V	1	V	V	1	1	1	V	1	1	V .	V 1	1	S	lotted clip Supports	314 0007 15 B	8	19	152	L/N081201-06 / Batch 5	152					\top	152
1	1	V	V	1	V	V	1	1	V 1	L2	L2	L2	L2	L2 l	2 L	2 B	olts AN4-16A	261 0003 17 A	4	19	76	API 4500006984 /L/N 58052/31582	48		API45000068519 / L/N66410/6472	28		11	76
√ ·	1 1	V	V	1	V	1	1	1	1	1	1	1	V .	V ,	1	В	olts AN4-15A	261 0002 17 A	4	19	76	L/N10357// M&m //4500033156	76						76
1	1	V	V	1	V	1	1	1	1	1	1	1	V .	V	L	2 N	luts	262 0001 17 A	8	19	152	API/4500068971 / L/N68222/716444	148		API 68222/71644 -MS2144N4/45000) 4		11	152
1	1 1	V	V	1	V	1	1	L2 I	L2	L2	L2	L2	L2 l	L2 L	2 L	2 W	Vashers	263 0001 17 A	16	19	304	NAS1149F0463P/L/N 71070/U2947	160		NAS1149F0463P Lot71070/U2947	144			304
1	1 1	V	V	1	V	V	V	V .	1	1	1	1	V .	V 1	1	Fi	iller blocks 1/4"	314 0012 02 A	4	19	76	L/N091208-01	76						76
-	1 1	+ -	-	-	V	-		1		-	-	-	V 1	V 1	-			314 0015 01 A	4	19	76	L/N090219-01	76						152 304 76 76 76
			V														iller blocks 3/32"	314 0014 01 A	4	19	76	L/N090219-02	76						76
7	1 1		oarts	7	cust	ome	ras	ssy	of L	-OI	N R	EA	RL	J-CI	ips:	_													
V 1	1 1	V	V	1	V	٧	1	1	1	1	1	١.	1	1	1			314 0023 15 A	2	19		LN-100430-01	38						38 76
1	1 1	N	V	1	V	٧	1	1	,	1	1		٧ ،	-				261 0002 17 A	4	19		L/N10357// M&m //4500033156	76						76
1	N	N	V	V 1	N	N	٧	٧ '	-	1	-	-	-	1				314 0007 15 B	4	19		L/N100315-01 / Batch 6	152						152
V 1	1 1	V	٧	V V	٧	٧	٧	٧ ،		-	٧ .	١ ،	٧ ،	V 1	V	W	lashers	263 0001 17 A	8	19	152	Airc.Spruce Can L/N40-15318 / P/Nar	152						152
			Extra								_				_	_													
																		314 0015 01 A		19		L/N090219-01							100
																		314 0014 01 A		19		L/N090219-02							128
١ ١	1 1	V	V	VV	V	٧	1	1	1	١.	١.	1	٧ ١	V 1	V	W	lashers	263 0001 17 A	8	19	152	Airc.Spruce Can L/N40-15318 / P/Nar	152						152

D.B. 2010.05.03

Helitowcart – NON CONFORMITY report	F80-02	Page 1 of 1
Reviewed & approved by:	1 00 02	2006 09 09
Section A - Non conformity description		
Product / Output:	NCP: 0	
BEARPAWS 44	NCK. 2011.	02-03-16-01
)	/yyy-mm-dd-initials-#
Product no: 112-0001-00	ASS no:	-
Non conformities: LoT: HTC-RC-091210	CARPAR no:	
GROS FILLER BLOC ARRIERE PRE-INSTALLE		
AVEC ANA- 14 A. CE BOULON NE FAIT	Supplier:	
PAS PARTIO DU KIT. DES BOLLONS AN4-15A	Supplier ref no:	
AVAIENT DÉJÀ ET INSÉRÉS DANS SACS.		
	Quantity rejecte	ed: 4 PAIRS
Initiated by: DB Date: 26(1 02 03	Quantity in the I	
ection B – Prescribed disposition		
Decision & notes:	□ Wait	Panair
	□ Discard	☐ Repair ☐ Use as is
	☐ Return to supplier	➤ Derogation (=use as is with
Actions	Resp	or without repair) Verified by
Paur LES Boirer Déjà VENDES: ALLUNE		D.P.
Action CAR ILL ONT FOUT EN MAIN ET IL EST		
BUIDENT QUE LE £ 14 EST TRUP GURT POR BLOC		
4 BOITES) -D HTC-RC-091210-10 -12		
4 BoitES) - + HTC-RC-091210-10 -12	L.B	N.B 201
Prescribed by: Date: Zorr 02 03		
ection C – Final verification		
Decision & notes:		
PADS COKRIGÉS + RÉ-EMBALLÉS		,
	•	n diệ
Sleed by S		
losed by: Date: Zeil 0 =	09	

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Think Desc: Lot number
PAIRS
Includes: 263 0001 17 A WASHERS 14 314 0001 01 A BEARFAW PAD 18 314 0006 15 B II SHAFED CLIP 18 314 0007 15 B SLOTED CLIP SIPPORT 18 314 0002 15 A ICEBLAIE ASSY 28 361 0003 17 A BOTS ANA-IGA 28 314 0013 01 A FILLER BLOOKS 14" 18 314 0013 01 A FILLER BLOOKS 14" 28 314 0013 01 A FILLER BLOOKS 14" 29 314 0014 01 A " " 3/32" 314 0014 01 A " 3/32"
14 314 0001 01 A BEARSAW PAD LN-080533-02 = 091 15 (BATCHE) 28 314 0006 15 B II. SHAFED CLIP LN-08 1302-01 = 091 20 (BATCHE) 56 314 0007 15 B SLOTTED CLIP SIPPORT LN-07 13 06-01 = 091 24 (BATCHE) 32 314 0002 15 A TCEBLADE ASSY LN-03-08 18 -01 = 091 28 71 28 361 0003 17 A BOGS ANG-16A IN-0805-01 = 091 20 = 091 20 =
28 314 0006 15 B II SHAPED CLIP 56 314 0007 15 B SLOTTED CLIP SUPPORT 1N-07 13 06-01 - 04 - 20 12 24 - 12 20 20 20 20 20 20 20 20 20 20 20 20 20
56 314 0007 15 B SLOTTED CLIP SUPPORT LN-0713 06-01 20124 36 32. 314 0002 15 A TCEBLADE ASSY LN-03-08 18-01 20128 36 28 361 0003 17 A BOTS ANY-15A TN-06-09-01 2013 37 112. 362 0001 17 A NUTS LN-01351 200 00 200 00 200 00 200 00 200 00 200 00
28 36 000 2 17 A BOOTS ANY-IGA IN 360905-01 - 10 - 10 - 10 - 10 - 10 - 10 - 10
112 262 0001 17 A NATS - API 68000 17 A NATS - API 68000 17 A FILLER BLOCKS 14" LN-314.0012-01-A=> 1000 002- MAINE 28 314 0014 01 A " 3/32" - 314.0015-01-A=> 3000 002- MAINE 28 314 0015 01 A " 3/32" - 314.0016-01-A=> 2600 002 MAINE 314.0016-01-A=>
112 262 0001 17 A NATS - API 68000 17 A NATS - API 68000 17 A FILLER BLOCKS 14" LN-314.0012-01-A=> 1000 002- MAINE 28 314 0014 01 A " 3/32" - 314.0015-01-A=> 3000 002- MAINE 28 314 0015 01 A " 3/32" - 314.0016-01-A=> 2600 002 MAINE 314.0016-01-A=>
28 314 00/2 01 A FILLER BLOCKS 14" [N-314.00/2-01-H=>10/10 W2 = MAINS 28 314 00/4 0/ A "1 " 3/32" => 314.00/4.01-A => 26@ 32 NA ing
28 3/4 00/4 0/ A " " 3/32" - 3/4. 00/4. 01-A => 26@ Barraing
Inspection Plan " " 1/8" 3/4-00/5-0/4 => x@ @ 2 1/4 3/6
TO TO THE TOP OF A NIA TIME
Aspect Sampling Inspection Acceptance parameters
A 100%. TRESENCE OF ICEBLATES AND TS
B 160%. PRESENCE OF DOCUMENTS
C 100% ALL LN MATCH USED PARTS
D 100%. ALL COMPONENTS PRESENT ON PADS OR BAG INCLUDED
E 100% BOX APPROPRIATELY IDENTIFIED
Inspection Plan approved by: N. Barlan Date: 09 06 30

Inspection Records Ok = T + initials

Date:	Quantity	A	В	С	D	E	Notes
090630	7 PAIRS	on NB		on wB	THE NB	OR NB	
Derogali	on: Used	2×1/	Blocs	instead	olIx	1/4" bfc	CK, SEE O APPROVED
/							

Release certificates issue

Release Certificates issued: yes no By	1: N. Dartian	Date: 3009. 06. 30
Comments:		
RECEASE CERTIFICA	TES NO.	
		+ i + K + M + P + T + R
HTC-RC-09063	0-01	TI + X + MITI TI
	01 -010	+ i + K + M + P + TAR
	(03 - A) 1E+ 6,	i+ f+ 0+ P+T+R
	109 -BIE+6	!+ K+ O+ P+T+R
	-105 - B+++6+	:+K+0+P+1+R
	66 - B+=+61	+ 5+ 0+ P+T+R
	07 - (0)+E+F+G	HHILLKILM
	2	2 2 1 2 2

F40-02 htc RELEASE INSPECTION- General (2006 09 09).doc / QMS Manager approval:

Tel 1-418-561-4512, Fax: 1-418-836-2291, info@helitowcart.com www.helitowcart.com 860 Marie-Victorin, Saint-Nicolas, Levis, Quebec, Canada, G7A 3S9

-RC	-091	0630	-XX																		
1	2	3	4	5		7	HTC-LNF-090639-01		Qté par paire		Qté totale pièces	Lot 1			Lot2			Lot3			
		-	-	-	-								Qty	Info		Qty	Info	-	Qty	Info	Qty to
B6	B6	B6	В6	B6	B6	B6+B1	Bearpaw pads	314 0001 01 A	2	7	14	080522-02	13	Batch 6	060905-04	1	Batch 1				+
B4	B4	B4	B4	B4	B4	B4+B1	U-Shaped Clips	314 0006 15 B	4	7	28	081202-01	26	Batch 4	060905-03	2	Batch 1				
Α	Α	Α	В	В	В	С	Slotted clip Supports	314 0007 15 B	8	7	56	071206-01	24	Α	081201-06	28	В	060905-02	4	С	
D	Ε	E	E	Е	E	E+F	Iceblade assy	314 0002 15 A	4	7	28	070818-01	4	D	081201-05	22	E	060905-01	2	F	
i	i	i	i	i	i	J	Bolts AN4-16A	261 0003 17 A	4	7	28	API 58052/31582	26	1	non disp	2	J				
G	G	G	G	G	G	G+H	Bolts AN4-15A	261 0002 17 A	4	7	28	M&M 10357	26	G	non disp	2	Н				
K	K	K	K	K	K	K+L	Nuts	262 0001 17 A	16	7	112	API 68222/71644	108	K	non disp	4	L				
T	Т	T	Т	Т	Т	T+U	Washers	263 0001 17 A	24	7	168	261755/nas1149fo463p	160	T	non disp	8	U				
M	M					M+N	Filler blocks 1/4"	314 0012 02 A	4	7	28	non disp	10	M	non disp	2	N				
		0	0	0	0		Filler blocks 1/8	" 314 0015 01 A			100	non disp	32	0							
							Derogation	: Blocs 2 blocs de	1/8" remplacer	nt un bloc de 1/4	" (Paire -03,	-04, -05, -06)			1.00						
							Correction de dérogation	: Remplacé les de	eux 1/8" par des	s 1/4" dans parie	s -04, -05, -0	06									
P	Р	Р	P	P	P	P+Q	Filler blocks 1/8"	314 0015 01 A	4	7	28	non disp	26	Р	non disp	2	Q				
R	R	R	R	R	R	R+S	Filler blocks 3/32"	314 0014 01 A	4	7	28	non disp	26	R	non disp	2	S				
-			-	-	+		Non Conformity Report:	-					-								
							NCR 2009-12-08-nb-01														
old	sold	sold	yes	yes	yes	yes	1 Washers Missing on pair no	04,05,06,07 (poss	sibly missing a	ilso on sold pai	ir -01,-02,-03	3)	-								+
							Action: Add 8 washers per p	air													
					-		Action: Done by NB 2009 12	08													
							2 1/8" Filler blocks used to rep	lace missing 1/4	filler blocks,	are replaced ba	ack to 1/4" f	iller blocks, new batch	LN-09	1208-01							-
		sold	yes	yes	yes	n/a	Action: Take off 8x 1/8" filler	blocks, and repla	ace by 4x 1/4"	filler blocks											
							This eliminates the derogation	on issued.													
							Action: Done by NB 2009 12	08						1						0.	
					-	-	3 Contact customers and send				_	cided no						heis		C	0.

because enstomers already have washer in stock and can use as many as needed or specified in motallation instruction.

Reviewed & approved by:		2006 09 09
Section A - Non conformity description		
Product / Output:	NCR: Jose	12.08.116.0
BP44		19-01-112-0
DF44	уу	yy-mm-dd-initials-
Product no: 1/2 0001 00 3	ASS no: 2009.	10.26.01
Non conformities:	CARPAR no:	
1- Missing PARTS IN PACKAGE (WASHERS-MISSING 8	RED KIT)	
WRONG GTY OF WASHERS	Supplier:	
2-REPLACE 1/4" WASHERS FOR 2x 1/8"	Supplier ref no:	
(MORE ARACTICAL FOR CLIST. ?)		
	Quantity rejected	1: 7 Pains
Initiated by: Date: 09 12 08	Quantity in the lo	
LOT HAD BEEN CREATED OF MULTIPLE BATCHES ACTIONS ACTIONS OF RISKIER FOR MISTAKES. PAIRS STILL IN STOCK:	□ Wait □ Discard □ Return to supplier Resp	□ Use as is □ Derogation (=use as is with or without repair Verified by
- PAIRS - 04, -05,-06, -07: ADD PARTS	NB .	NB 2009 12 C
Paies ALREADY SHIPPED TO CUSTOMERS: -PAIRS -01, -02, -03: INFORM CUSTOMERS & SAN BACK IF NEEDED.	~ ~	ACTION *
*SINCE IT IS VERY MINOR & CUSTOMERS CAN I HAVE DECIDED NOT TO SEND WASHERS. IP,	use mein	our waste
Prescribed by: Date: 09 12 08	A STATE AS	100
Decision & notes: ALL LOTS IN STOCK CORRECTED.		
Closed by: Date: 2009 12		

F80-02

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Helitowcart - NON CONFORMITY report

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1	
Reviewed & approved by:		2006 09 09	

Qty Pairs	Part No.	Desc:	Lot number
Pairs 8	1(2 0001 00B	BEARAN ASSY	HTC-LNF- 090202~01 HTC-LNF-yymmdd-seq
Include	S:		
16	314 000/ 01 A	BEACLAW PAD	LN-080572-02 (BATCHELL)
32	314 0006 15 B	4 SHAPED CLIP	LN-081203-01
64	314 0007 15 B	SLOTTED CLIPSUPPORT	LN-081201-06
	314 0002 15 A	TCEBLADE ASS'Y	LN-081201-05 (BATCH14)
33	261 0003 17 A	Bocts ANG- 16A	LN- 58052/31582-
	262 0001 17 A	NUTS	LN-081231-01
32	314 00 12 01 A	FILLER BLOCKS "4"	LIN-000212-01
Inspec	314 0014 01 A ction Plan	" " 3/32"	0102 19-03
Aspect	Sampling Inspec	etion	Acceptance parameters
A	leo /. Trese	ENCE OF ICEBLADES INU	75
В		ENCE OF DOCUMENTS	
С		LN MATCH WED PARTS	
D	100.1. ALL CO	IMPONENTS PRESENT ON PAI	S OR BAG INCCUDED
E	100% Box 1	APPROPRIATELY IDENTIFIED	
inspecti	ion Plan approved by: 🔍	8	Date: 09 02 02

Inspection Records

Ok = T + initials

Date:	Quantity	Α.	В	С	D	E	No	11.1502
09002	8 Pairs	ours	on ais	or way	ours	dian		Adel TC Zoo

₽△	lagea	certificates	icour
10	lease	Certificates	5 15501

Release Certificates issued: yes no By: N. Sautian Date: 2009.02.19
Comments:

RECEASE CERTIFICATES NO: HTR-RC-090202-01

DEPOSATION BLACKSH

F40-02 htc RELEASE INSPECTION- General (2006 09 09).doc / QMS Manager approval:

Page 1 of 1

A. V.

1 - 1 - 1 - 1 - 1 - 1 - 1

Reviewed & ap			orion ge	iliciai			40-02	2006 09 0	
TOTIONICU & ap	proved by.							2000 09 0	3
Traceability	/ data								
Qty Part N	No.		Desc:			Lot nu	mber		
PAIRS	1001	_ //	BP49			итс і	NE OF	1205-	0/
4 112	00010	B	EARPA	w Ass	.4		NF-yymmdd		
Includes:									
8 314	000/	>1 A (BEARLA	in PAI		LN- C	8053	12-01	(BATCH :
16 314	0006	15 B 0	1 SHA	PED C	cip	LN- o	81200	2-02	(BATCH 9
32 314	0007	15B S	COTTED	CCIPS	UPPORT	LN-	71206	-01 (B	atch 4)
16 314	0002	15A 3	TCEBL	ADE A	555	LN- O	708/8-0	1 (BATCH	1 3) = OPT
16 261		120		0414 1		LN- A	Pi 58050	131582	Va.
64 262			JUTS	- 1,04 - 7,	3	LN-M	Pi 01946	81-	- J+VI ,
16 314	0012 0	IA F	ILLER B	locks h	40	LN- 0	80313 -	01	718396
16 319	0014 01	614		" 3/	329		80909-		
Inspection			u	" 4	8 2		109 09-	•	
-	npling	Inspection					tance para	meters	4-1
	5%.		Nee of			NUTS			
-	0 %		V MAT			3			
	0%						BAG INC	6.10-0	
	0.6.	BOX AL	PROPRIE	ATECH is	DONTIK	in in	JAG INC	Love	
Inspection Pla		by: 🔊	8	o y re			08 12 0	25	
Inspection	Records		Ok = T+	initials					
	Quantity	Α	В	С	D	E	Notes		
08 1205 4	PAIRS	OR NB	OK PB	OKNB	DIC MB	JOK NB			
	***************************************		-						
D							,		
Release ce				,	10				
Release Certif	icates issue	ed: yes	no By:	N . 1	Dale	0_	Date:	08120	3
Comments:									
KELEAS	E CER	TIRIC	ATES	-				.	
, , ,							5/ <		2 4
	ILTE	R	0-	013	005	- DC	12 4		e de
	HIC	e - R	~ ·	010		5	34		
						15	4 4		
ACCEPT	EPART	EPRAT	IN E	LACV (CAPIN	K			
F40-02 htc RELEAS	5		2						
	SE INICOECTION	I Conoral (2006 00 000 1	ONAC NA		d.		_	ge 1 of 1

F40-02

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Helitowcart - RELEASE INSPECTION general

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1	
Reviewed & approved by:		2006 09 09	

Hac	cability data						
Qty	Part No.		Desc:			Lot number	
2 84	112 000/ c	00 B	BP44 BEARPA	w Ass	·/	HTC-LNF-08/202- 0/ HTC-LNF-yymmdd-seq	
Inclu	des:						
4	314 0001 0	IA	BEARPA	w PA	Ð	LN-070311-01 0	Batch 3
8	314 0006 15	5 B	U SHAR	ED CCI	P		Botoly
16	3140007 1	5B	SLOTTEDO	UPSUP	PORT	LN-071206-01 (Batel4
8		5 A	ICEBLA	DE ASS	4	LN-070818-01 (1	Satel 3
8	261-0003-1	7 A	BOCTS	AN4 -	16 A 15 A	IN API CHOSAI 916CA.	
32		7 A	NUTS			LN-84171/713394	
8	31.	IA	FILLEB.	BLOGS	1/4"	LN-080313-01	
	214 0015 0	, 4	u	~	3/32"	W080909-07	
Insp	ection Plan	1 71	11	4	1/8"	LN 08 09 09 -01	
Aspe	ct Sampling	Inspec	tion			Acceptance parameters	
Α	100%	TRESE	NCE OF	ICEBU	ADES LNU		
В	100%		ENCE OF				
С	100%				ED PARTS		
D	100%	ALL	compo	NENTS	MESENT	ON PADS OR BAG INCLUDE	0
E	100%	BOX	APPRO	PRIATE	LY I'DEN	ritied	
Inspe	ction Plan approved	by:	B			Date: 68 1201	

Inspection Records

Ok = T + initials

		_	The same of the sa	THE RESERVE THE PERSON NAMED IN			
Date:	Quantity	Α	В	С	D	E	Notes
081202	2 PAIRS	* LUB	bent.	JOH NES	TOR WB	DRAB	
						1	

Re	lease	certifica	tes	issu	ıe
	000	ooi tiiioa			

Troisace continuation local				
Release Certificates issued: yes	no	By: N-	Dartean	Date:
Comments:				

RECEASE CERTIFICATES

HTC-RC-081202-01

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Hacce	ability data					
Qty	Part No.		Desc:		Lot number	
3 PAIRS	112.0001.	OOB	BF44 BEARPAW	1.55 A	HTC-LNF- 09 10 30 - 01 HTC-LNF-yymmdd-seq	
Includes				,	DE CA	
4	314 0001	014	BEARPAU PA	D	LN- 07 03 11- 01 (BACAN	मध्ये ड
12	314 0006	15 B	U SHAPED CLI	P	LN- 070126-01	
			SLOTTED CCIP.		LN- 07 12 06-01	
12	314 0002	15A.	TCEBLADE A	122	LN-070818-01	
12	261 0003	129	A	V4-16A V4-15-H	LN- 58052/31582 API PRODUCTS 10357/2006HO1571MJM AZROGING	e Ha
-43		17A	NUTS .		LN- 64171/713396 AP.PRS	spuct.
		01 A	FILLER BLOCK	4"	LN- 080313-01	
		OLA	11 4	3/32"	W-080909-07	
Inspec	ction Plan	OIA	4 41	49"	LN-080909-01	
Aspect	Sampling	Inspec	tion		Acceptance parameters	
A	100%	PRES	ENCE OF ICE BU	ADES ANUTS		
В	100%		INCE OF DOCUM			
С	100%		V MATCH USED P			
D	100%				R BAG INCLADED	
E	100%		APPROPRIATEL			
Inspection	on Plan approved	by:	1.130. P.		Date: 0 2 10 30 5	

Inspection Records

Ok = T + initials

Date:	Quantity	Α	В	С	D	E	Notes
2008 10 30	3 PAIRS	YOK NB	SHE NY	OK NB	YOK NB-	Su NB	
	-						
	-	-			-		
		+					

_			
Re	Pase	certificates	ISSLIP
1 10	1000	oci tilloates	13346

Release Certificates issued:	yes	no	Ву:	N.	15a	Lan	Date:	08(030
Comments:								

RELEASE CERTIFICATE ISSUED.

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Page 1 of 1

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

	Qty	Part No.	Desc:	Lot number
	9 NAIRS	112.0001.00B	BEARPAW ASSY	HTC-LNF- 08 04 15-0) HTC-LNF-yymmdd-seq
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_	5/8	314.0001.01A	BEARPAW PAD	LN-080414-01
5	34	314.0006.15B	U-SHAPED CLIP	LN-040126-01
2	372	314.0007.15B	SLOTTED CLIP SUPPORT	LN-07/206-01
N	36_	314.0002.15A	ICE BLADE ASSY	LN- 061114-03
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Inspection Plan

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Α	100%	PRESENCE OF ICEBIADES +NUTS	. 0 0 0	
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Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Qty	Part No.	Desc:	Lot number
	112.0001.00B	BEARAW ASSY	HTC-LNF- 070823 - 0/ HTC-LNF-yymmdd-seq
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10	314.0001.01 A	BEARPAW PAD	LN- 07 03 11-01
20	314.0006.15B	U-SHAPED CLIP	LN- 06 11 14-02
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20	314.0002.15A	ICEBLADE ASSY	LN- 06/11/4-03
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В	100%	PRESENCE OF DOCUMENTS (4)
С	100%	ALL IN MATCH USED PARTS FOR LOT
D	100 T.	ALL COMPONENTS PRESENT ON ADS OR BAGS INCLIDED
E	100%	BOX APPROPRIATELY IDENTIFIED
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Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

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7	9	314.0001.01 A	BEARPAON PAD	LN- 070311- 01
الو	32_	314.0006.15B	4. SHAPED CLIP	LN-061114-02
N	572	314.0007.15 B	Scotted CLIP SUPPORT	LN-061114-01
PIE	32	314.0002.15A	ICERCADE ASSY	LN-061114-03
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Inspection Plan

Aspect	Sampling	Inspection Acceptance parameters
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Inspection	n Plan approved	by: Date: 2007. 08.70

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Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
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Qty	Part No.	Desc:	Lot number					
9 PAIRS		BEARAW ASSEMBLY						
Price	112.0001.00.13	B-ask. Osser	HTC-LNF- 07 03 14 - 01					
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Include	es:	· .	•					
18	314.0001.01.A	BEARFAW PAD	LN-061114-04					
			IN					
36	314.0006.15.B	USHAPED CLIP	LN-061114.02					
81	314.0007.15.B	SLOTTED CLIP SUPPORT	LN-06 1114.0/					
36	314.0002-(5.A	ICE BLADE ASSY	LN-0611 14 .03					
			LN-					
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Inspection Plan

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Aspect	Sampling	Inspection	Acceptance parameters
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D	100 %	ALL COMPONENTS PRESENT ON	PADSOR BAGS INCLUDED
E	100%	BOX APPROPRIATELY IDENTIF	ED
Inspectio	n Plan approved		Date: 2007-03.14

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Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Qty	Part No.	Desc:	Lot number
3	3	BP44	HTC-LNF-061123-01
PAIRS	112-0001-00D	BEARPAW ASSEMBLY	HTC-LNF-yymmdd-seq
Include	s:		
6	314.0001.01.A	BEARPAW PAD	LN-061114-04
12	314.0006.15.B	BEARDAW LISHAPED COP	LN-061114-02
24	314.0007.15.B	BEARPAN SLOTTED GIP SUPP	LN-0611 14-01
12	314.0002.15.A	BEARPAW ICE BLADE ASSY	LN-061114-03
			LN-
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Inspection Plan

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С	100%	ALL LN MATCH USED PARTS FOR	
D	100%	ALL COMPONENTS PRESENT ON	PADS
E	100%	BOX APPROPRIATELY IDENTIFIE	O
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Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1	
Reviewed & approved by:		2006 09 09	

Qty	Part No.	Desc:	Lot number
PAIRS	112-0001-00-13	BEARPAW ASSY	HTC-LNF- 06 09 05 - 01 HTC-LNF-yymmdd-seq
Include	s:		
/20	314-0001-01-A	BEARPAW RAD	LN-060905-04
3640	314-0006-15-B	BEARPAW USAAPED CUP	LN-060905-03
69	3	BEARPAW SLOTTED CLIP SUPP.	LN-060905-02
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E	100%	ALL COMPONENTS PRESENT ON PADS. SEE 112-0001-00-6	
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Helitow	cart - RELEASE	INSPE	CTION				F40-02	Page 1 of 1	
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С	100%	ALLL		ATEH PA					
D	100%	4 (OMPO	NENTS	INTO BA	55			
E	100%	Box	APP	ROPRIATE	ECY IDE/	UTIFIE	D		
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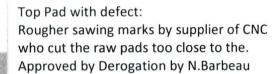
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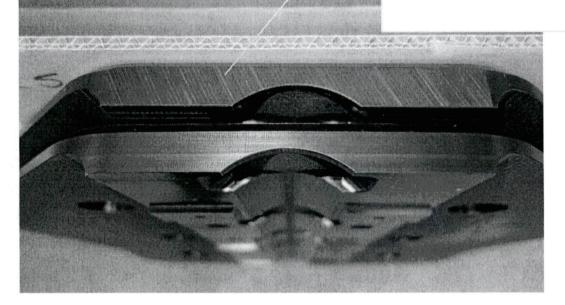
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L1	L1	L1	L1	L1	L1 L	1 L1	L1 l	_1 L1	L1 L	.1 L1	L1 L	1 L1	L1 L1	1 L1+L	2	Nuts	262 0001 17 A	16		20	320	API LN 86168/724056		API LOT82694/722904	6			
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L1	L1	L1	L1	L1	L1 L	1 L1	L1 L	_1 L1	L1 L	1 L1	L1 L	1 L1	L1 L1	1 L1	1	Slotted clip Supports	314 0007 15 B	12		20	240	LN-160421-04	240					
L2+L3	L2+L3	L2+L3	L1+L2	L1+L2	L1 L	1 L1	L1 l	_1 L1	L1 l	.1 L1	L1 L	1 L1	L1 L1	1 L1	1	Bolts AN4-14A	261 0001 17 A	12	l	20	240	API LOT 80195/4475	190	API LOT 79720/4256	44	API LOT 84669/74351	6	24
L1	L1	L1	L1	L1	L1 L	1 L1	L1 L	_1 L1	L1 L	1 L1	L1 L	1 L1	L1 L1	1 L1	1	Nuts	262 0001 17 A	12		20	240	API LOT 86168/724056	240	ronge se		49 4 1		-
L1	L1	L1	L1	L1	L1 L	1 L1	L1 L	_1 L1	L1 L	.1 L1	L1 L	1 L1	L1 L1	1 L1	1	Washers	263 0001 17 A	24	2	20	520	API LOT 87914/SA5217	520					-
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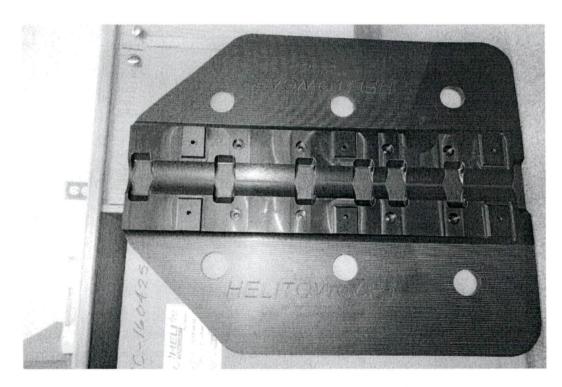
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LN-161127-01 Batch 8 / BP350 first batch with the Pockets for Dart Wear Shoe Bolts. / NB



Bottom Pad without defect:







MDL

Master Document List

Eurocopter Model AS 350/355 Series Helicopters Installation of BearPaw Model BP350

Report: HTC-MDL-BP-AS350/355-1000 (Rev H)

APPROVED BY:

DATE: MAY 30, 2016

Mirko Zgela

Design Approval Representative DAR #310

Revision	Revision Date	Revision of Entry	Entered by
A	Nov 22, 2006	Initial issue	N/A
В	Jan 28, 2007	Revision performed to the Installation Instructions (Doc # HTC-314-0020-00)	M.Z.
С	Feb 28, 2007	Addition of streamline pad configuration. Revision performed to the Installation Instructions (Doc # HTC-314-0020-00)	M.Z.
D	July 27, 2008	Addition of vents holes in the streamline pad.	M.Z.
E	Aug 01, 2008	Modification of vents holes in the streamline pad.	M.Z.
F	April 8, 2010	Revision performed to the Installation Instructions (Doc # HTC-314-0020-00)	M.Z.
G	December 21, 2012	Updated Tolerance data regarding Pad and Updated referenced document identification and revisions	M.Z.
н	May 30, 2016	Added recesses for skid wear shoes and leaf spring on streamline BearPaw (Dwg # 314-0018-01-S) and allowed trimming/machining of recesses on previous models provided the relief leaves at least 0.500" thickness.	M.Z.



1.0 MASTER DOCUMENTS

Document #	Title	Revision Status	Approval by	Date
AAC-CPL-BP- AS350/355/EC130-1000	Compliance Plan – Eurocopter Model AS350/355/EC130 Series Helicopters – Installation of BearPaw Model BP350 and BP130	В	DAR 310	May 11, 2011
HTC-314-0020-00-E	BearPaw Model BP350 – Installation Instruction – AS350/355 Series Helicopters	G	DAR 310	May 30, 2016
AAC-STR-BP-AS350/355- 1000	Structural Substantiation – Helitowcart Inc. BearPaw Model BP350	NC	DAR 310	Nov 20, 2006
AAC-FTR-C-GZNC	Simple External Modification – Applicant's Flight Test Plan/Report	NC	DAR 310	Nov 21, 2006
HTS-EO-0709-002	Bear Paw Model BP350 Vent Holes	Α	DAR 310	July 31, 2008
HTC-MEM-0709-001	Memorandum – Vent Hole BP350 BearPaw	Α	DAR 310	July 31, 2008
HTC-TM-0709-001	Structural Substantiation – BearPaw Streamline BP350 with Recesses Wear Pads	NC	DAR 310	May 30, 2016

2.0 MASTER DRAWINGS

Drawings #	Title	Revision Status	Approval by	Date
112-0002-00	BearPaw BP350 - Assembly	В	DAR 310	Nov 20, 2006
112-0002-00-S	BearPaw BP350 - Assembly Streamline	E	DAR 310	May 30, 2016
314-0002-15 (VNR084)	BearPaw - Iceblade	A (R01)	DAR 310	Apr 24, 2006
314-0004-15 (VNR085)	BearPaw – Iceblade Threaded Rod	A (R01)	DAR 310	Apr 24, 2006
314-0005-15 (VNR086)	BearPaw - Iceblade Assembly	A (R01)	DAR 310	Apr 24, 2006
314-0007-15 (VNR089)	Bearpaw - Slotted Clip Support	B (R04)	DAR 310	July 31, 2006
314-0012-01 (VNR099)	Filler Block 1/4"	A (R01)	DAR 310	Aug 8, 2006
314-0018-01 (VNR106)	BearPaw BP350 - Pad	B (R02)	DAR 310	Sept 26, 2006
314-0018-01-S (VNR106-S)	BearPaw BP350 – Pad Streamline	E	DAR 310	May 30, 2016
314-0019-15 (VNR107)	BearPaw BP350 - U Shaped Clip	A (R01)	DAR 310	Sept 29, 2006



3.0 REFERENCE DOCUMENTS

Document #	Title	Revision Status	Approval by	Date
314-0009-01	Ultra High Molecular Weight Polyethylene - Typical Properties	Α	N/A	May 24, 2006
314-0008-01	Material Properties - UHMW TIVAR	Α	N/A	May 24, 2006
314-0017-05	Heat Shrink Specifications	Α	N/A	Sept 6, 2006



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INSPECTION Life Limited Items Pre-Flight Periodic Inspection Schedule 500 Hour or Yearly Inspection Details Overhaul Requirements Pad Recesses for Skid Wear Shoes and Leaf Spring	p.8 p.8 p.8 p.8 p.8 p.10 p.10
INSTALLATION BearPaw Installation BearPaw Removal Weight & Balance Parts List	p.4p.6p.6p.7
INTRODUCTION Scope General Helicopter Effectivity Installer Responsibilities	p.2 p.2 p.2 p.2 p.3

Annex A (BearPaw Assembly Drawing)
Annex B (Tolerance Zones for Cracks and Wear)



INTRODUCTION

Scope

This installation instruction describes the step-by-step approach to install and to perform maintenance of the Helitowcart BearPaw Model BP 350 (P/N 112-0002-00 or P/N 112-0002-00-S) for the AS 350 and AS 355 series helicopters.

General

The Helitowcart BearPaw is made of machined UHMW TIVAR® polymer sheet. This material combines high-impact performance, low friction and good resistance to chemical. Its high durability will provide superior performance when installed on your helicopter. Any question regarding the Helitowcart BearPaw system shall be directed to Helitowcart Customer Support as indicated in Table (1):

Table 1 - Helitowcart Customer Support

Care of	Mailing Address	Phone, Fax & Email:
Customer Support	860 Marie-Victorin	Tel:1 (418) 561-4512
Helitowcart BearPaw	St-Nicholas, Levis, Quebec,	Fax:1 (418) 836-4575
Helitowcart (Vanair inc)	Canada, G7A 3S9	info@helitowcart.com

Helicopter Effectivity

This installation instruction applies to the following helicopter models:

Table 2 - Helicopter Model Effectivity

Make	Model	Transport Canada Type Certificate Data Sheet
Eurocopter	AS 350 D	
Eurocopter	AS 350 D1	
Eurocopter	AS 350 B	,
Eurocopter	AS 350 B1	H-83
Eurocopter	AS 350 B2	
Eurocopter	AS 350 B3	
Eurocopter	AS 350 BA	
Eurocopter	AS 355 E	
Eurocopter	AS 355 F	
Eurocopter	AS 355 F1	H-87
Eurocopter	AS 355 F2	
Eurocopter	AS 355 N	



Installer Responsibilities

The installer shall ensure that the installation of the Helitowcart BearPaw does not conflict with any other part of the helicopter configuration. Technicians performing this installation should be familiar with A/C work and should have been familiarized with the different Helitowcart BearPaw system components prior to performing a first time installation. All steps in this procedure must be followed. Deviations from the procedures may result in potential structural failure or equipment malfunction and will result in a non-compliant installation.



INSTALLATION

BearPaw Installation

Reference Documentation:

[1] Helicopter Maintenance Manual AS 350 or AS 355 as applicable.

Step 1: Helicopter Preparation

- Ensure the helicopter is safe for maintenance;
- Lift the helicopter using the manufacturer recommended practice provided in Ref [1] as applicable to your helicopter model to allow a ground clearance of the skid in the area of the aft cross tube of approximately 1 ½" (38mm);

Note: The BearPaw Model BP350 (P/N 112-0002-00 or P/N 112-0002-00-S) can be installed with or without the skid tube wear shoes.

Step 2: IceBlade Installation

Note: The BearPaw Model BP350 (P/N 112-0002-00 or P/N 112-0002-00-S) can be installed with or without the IceBlades

- · With IceBlade Option
- Install ice blades (Qty: 4) (Iceblades P/N 314-0005-15) under BearPaw pad as per drawing (112-0002-00 or 112-0002-00-S) provided at Annex A.
- Secure ice blades with washer (Washer P/N 263-0001-17) and nut (P/N 262-0001-17).

Step 3: BearPaw Installation

- Position the BearPaw under the skid as shown in Figure 1 with narrow edge pointing forward.
- Insert washers (P/N 263-0001-17) through all six bolts: 6x(261-0001-17);
- Insert bolts (P/N 261-0001-17) and washer (Washer P/N 263-0001-17) through BearPaw pad as per drawing (112-0002-00 or 112-0002-00-S) provided at Annex A;
- Insert filler blocks (P/N314-0012-01) as per drawing (112-0002-00 or 112-0002-00-S) provided at Annex A;

Note: The use of filler blocks (P/N314-0012-01) may be replaced or complemented by the use of washers (P/N 263-0001-17) to fill in the gap. Bolts (P/N 261-0001-17) may be replaced by longer or shorter AN4 bolts as required.

- Insert both U-shaped clips (P/N 314-0019-15) through bolts: 6x(261-0001-17);
- Insert slotted clip supports (P/N 314-0007-15) through all six bolts. Position slotted clip supports with rounded edge toward helicopter skid;
- Insert washer (P/N 263-0001-17) & screw nuts (P/N 262-0001-17) for a tight fit. Max. torque on nuts 60 in.-lb;
- Remove helicopter from lift;
- Amend Weight & Balance records as required using data provided in Table 3.



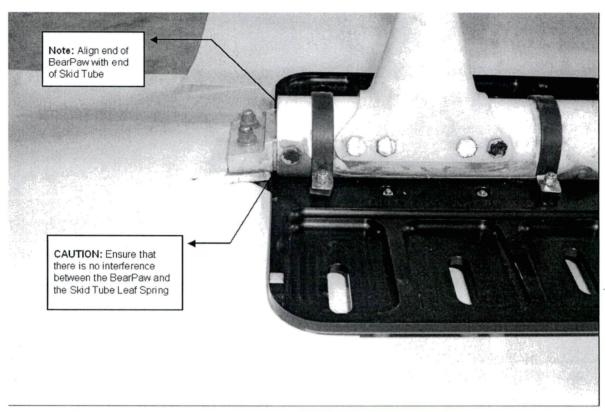


Figure 1 - BearPaw Model BP350 (P/N 112-0002-00 or P/N 112-0002-00-S) - Alignment on Skid



BearPaw Removal

Step 1: Helicopter Preparation

- Ensure the helicopter is safe for maintenance;
- Lift the helicopter using the manufacturer recommended practice provided in Ref [1] to allow a clearance of the skid in the area of the aft cross tube of approximately 1 ½" (38mm);

Step 2: BearPaw Removal

- Remove nuts (P/N 262-0001-17), slotted clip support (P/N 314-0007-15) on U-shaped clips (P/N 314-0019-15),
- Remove washers (P/N 263-0001-17), U-shaped clips (P/N 314-0019-15), filler blocks (P/N314-0012-01), and remove BearPaw pad (P/N 314-0018-01) or (P/N 314-0018-01-S Streamline);
- Inspect skid tubes to confirm serviceability
- If the skid tube shoes have been removed, re-install shoes as per reference [1];
- Complete installation by putting helicopter back to normal position by removing lift status;
- Amend Weight & Balance records as required using data provided in Table 3.

Weight & Balance

The following information should be used to amend the helicopter weight and balance information following the installation or removal:

Table 3 – Weight & Balance Data (1)

ltem	Weight	Lateral		Longitudinal	
цен	weight	Arm	Moment	Arm	Moment
Helitowcart BearPaw Model BP350 (P/N 112-0002-00)	19,9 Lb 9,0 Kg	N/A	N/A	159,4 in. 404.9 cm	3172.0 in-lb 36.44 m-kg
Helitowcart BearPaw Model BP350 - <u>Streamline</u> (P/N 112-0002-00-S)	18,3 Lb 8,5 Kg	N/A	N/A	159,4 in. 404.9 cm	2917.0 in-lb 34.41 m-kg

Notes:

(1) Weight and moment provided are for full kit installation (two BearPaw assemblies).



Parts Lists

The Helitowcart BearPaw detailed parts list is as follows.

Table 4 - Part List (one BearPaw)

Tuble 4 - Furt List (one bear aw)					
Description	Qty	Part / Dwg No.	Additional Drawing Reference No./ Name		
BearPaw Assembly Model BP350	1	112-0002-00 or 112-0002-00-S	BearPaw Assembly – Pocket Style, or Bear Paw Assembly – Streamline		
BearPaw Pad ⁽¹⁾ Model BP350	1	314-0018-01 or 314-0018-01-S	BearPaw BP350 – Pocket Style Pad (VNR106) or BearPaw BP350 – Streamline Pad (VNR106-S)		
U Shaped Clips	3	314-0019-15	BearPaw BP350 - U Shaped Clips (VNR107)		
Slotted Clip Support	6	314-0007-15	BearPaw - Slotted Clip Support (VNR089)		
Filler blocks 1/4"	6	314-0012-01	BearPaw – Filler block 1/4" (VNR099)		
Bolts	6	261-0001-17	Bolt- AN4-14		
Nuts	6	262-0001-17	Nut- MS20365-428		
Washers	12	263-0001-17	Washer - AN960-416		
Shrink	3	314-0021-01	BearPaw – Shrink Specifications & Install.(1"x6.25")		
IceBlade Option Model OIB	4	314-0005-15	IceBlade Assembly (VNR086)		
Nuts	8	262-0001-17	Nut- MS20365-428		
Washers	8	263-0001-17	Washer - AN960-416		

Note (1): Use pocked shaped BearPaw Pad P/N 314-0018-01 for assembly P/N 112-0002-00. Use streamlined Pad P/N 314-0018-01-S for assembly P/N 112-0002-00-S as applicable.



INSPECTION

Life Limited Items

There are no life limited items for the Helitowcart BearPaw.

Pre-Flight

Before each flight the following items should be inspected:

- · Check that attachment bolts are installed and secured,
- Check that BearPaws are free from visible damage,
- If damage is found, verify allowable damage according to Tables 5 & 6 and Annex B Tolerances for cracks & wear

Periodic Inspection Schedule

- The Helitowcart BearPaw shall be inspected every 600 flying hours or yearly whichever comes first.
- The Helitowcart BearPaw can be inspected concurrently with the helicopter landing gear inspection.
- Recommended tolerance for performance of inspection is +/- 10% of the 600 hours period.
- Following an inspection, subsequent interval shall be adjusted to meet the original schedule from time
 of inspection. If inspection is performed earlier than the 10% tolerance, then following inspections
 shall be scheduled not to exceed the above mentioned tolerance.

600 Hours or Yearly Inspection Details

- Remove Helitowcart BearPaw: See Section "BearPaw Removal",
- Inspect all parts for damage & wear. See Tables 5 & 6 and Annex B Tolerances for cracks & wear.
- Replace all parts damaged beyond tolerances.



Table 5 - Tolerances for Cracks & Wear / Pocket Pad 314-0018-01 (VNR 106)

Zone	Nominal Dimension (Inches)	Allowable Damage/Wear (Inches)	Cracks
Α	0,50	0,050	
В	1,000	0,250	
С	0,375	0,075	Pockets: Cracks are acceptable in the Helitowcart BearPaw pocket areas to a maximum length of 0,5" provided they are 0,25" away from the stiffener radius change. Stop drill cracks with a 0,125" hole.
D	0,50	0,050	Stiffeners: NO cracks in stiffeners.

Table 6 - Tolerances for Cracks & Wear / Streamline Pad 314-0018-01-S (VNR 106-S)

Zone	Nominal Dimension (Inches)	Allowable Damage/Wear (Inches)	Cracks
Α	0,50	0,050	
В	1,000; and 0.88	0,250	
С	0.273 to 0,348 (variable thickness)	0,075	Cracks are acceptable in zone C under the Helitowcart BearPaw to a maximum length of 0,5". Stop drill cracks with a 0,125" hole.
D	0,49 (thickness after radius)	0,075	No cracks in the radius
E	0,38	0,075	No cracks in the BearPaw contour

Pad Recesses for Skid Wear Shoes and Leaf Spring

BearPaw 314-0018-01-S may be trimmed/machined to clear wear shoe mounting screws and skid leaf spring provided the recesses leave at least 0.500" thickness and provided that maximum lengths and widths of Figure 2 are not exceeded.

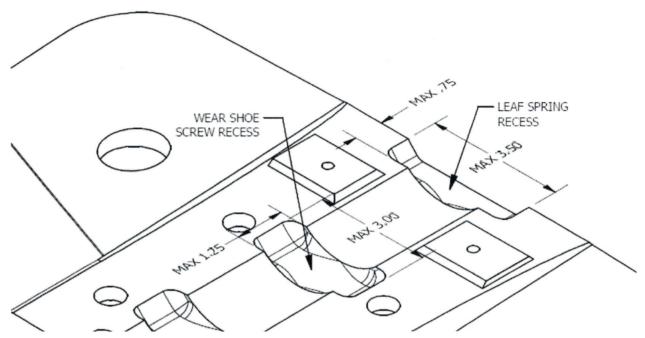


Figure 2 - Maximum Dimensions of Recesses

Overhaul Requirements

• Not applicable for the designated application of this device.



REVISIONS & APPROVAL

Revisions

Date	Rev	Nature of Revisions	
Nov 20,2006	Α	Initial issue	
Jan 29, 2007 B Chang Chang		Minor editorials. Change to weight & Balance Data to reflect production model. Change in inspection schedule from 300 to 500 hours to match existing anding gear periodicity.	
Feb 28, 2008 C Introduction of new streamline BearPaw Pad configuration as alte		Introduction of new streamline BearPaw Pad configuration as alternate.	
Aug 01, 2008	D	Modification of vent holes on the streamline pad	
April 8, 2010	E	Correction to C of G data	
December 21, 2012 F Updated Pad Tolerances and Document ide Improved page set up for reader convenience		Updated Pad Tolerances and Document identifications . Improved page set up for reader convenience.	
April 29, 2016	G	Added recesses for skid wear shoes and leaf spring on streamline BearPaw and allowed trimming/machining of recesses on previous models provided the relief leaves at least 0.500" thickness.	

Approval

Internal Approval:		
Helitowcart inc.	Lucia Barteau	Date: May 30, 2016
	Lucien Barbeau, President	
External Approval:		
Transport Canada	Mk Zgete	Date: May 30, 2016
	Mirko Zgela, DAR #310	

Annex A - BearPaw Assembly Drawing

See: BearPaw Assembly, dwg no. (112-0002-00) for Pocket style pad or: BearPaw Assembly, dwg no. (112-0002-00-S) for Streamline pad

Annex B - Tolerance Zones for Cracks and Wear

See: BearPaw Pad, dwg no. 314-0018-01 (VNR106) for Pocket style pad;

BearPaw Pad, dwg no. 314-0018-01-S (VNR106-S) Rev A to D for Streamline pad without recess;

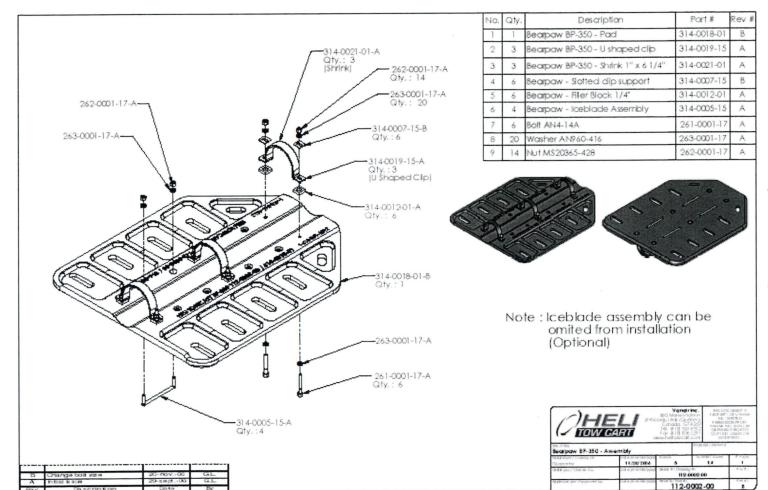
BearPaw Pad, dwg no. 314-0018-01-S (VNR106-S) Rev E for Streamline pad with recesses.



Annex A - BearPaw Assembly Drawing

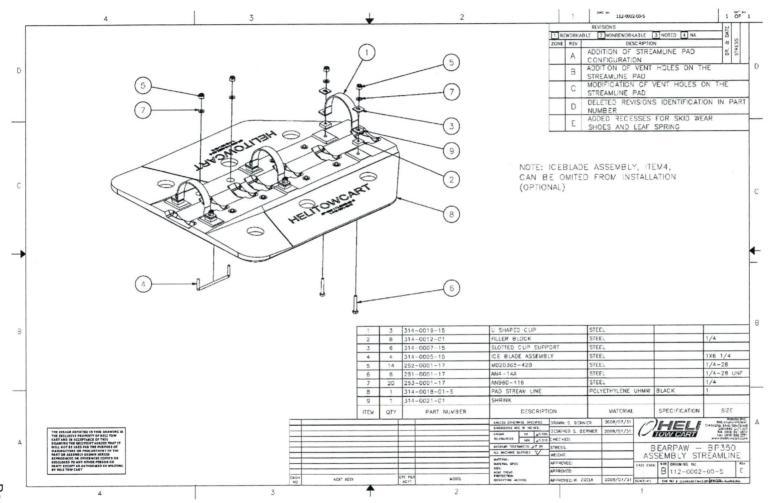


Pocket Style Pad - Dwg 112-0002-00





Streamline Pad - Dwg 112-0002-00-S



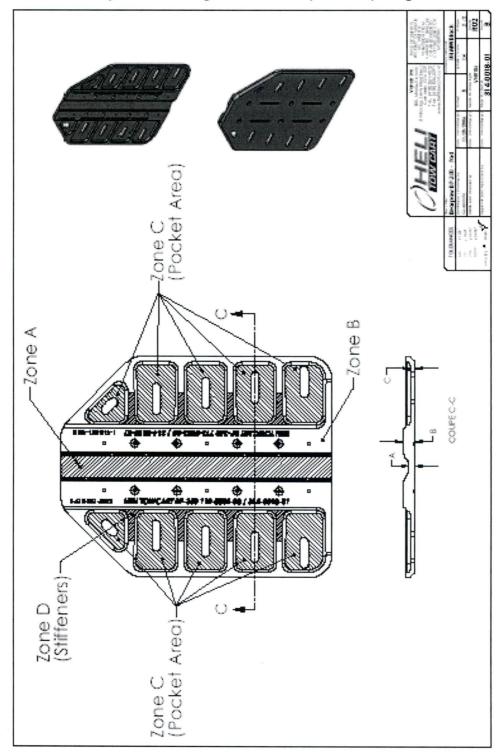
Page 14 of 18



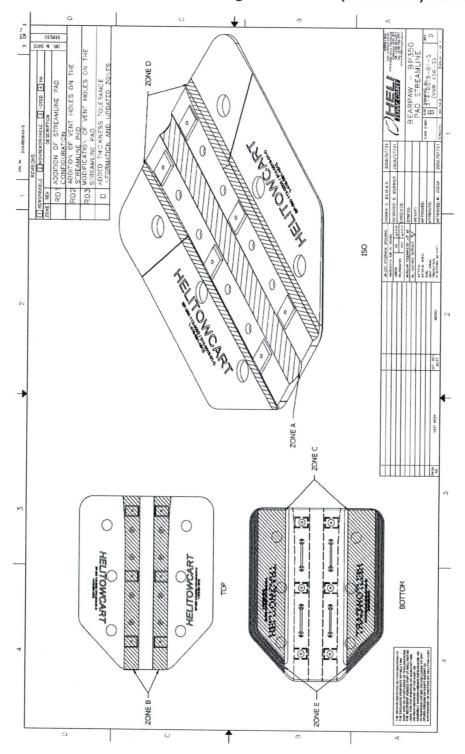
Annex B - Tolerance Zones for Cracks and Wear



Pocket Style Pad - Dwg 314-0018-01 (VNR106) Page 2 of 2

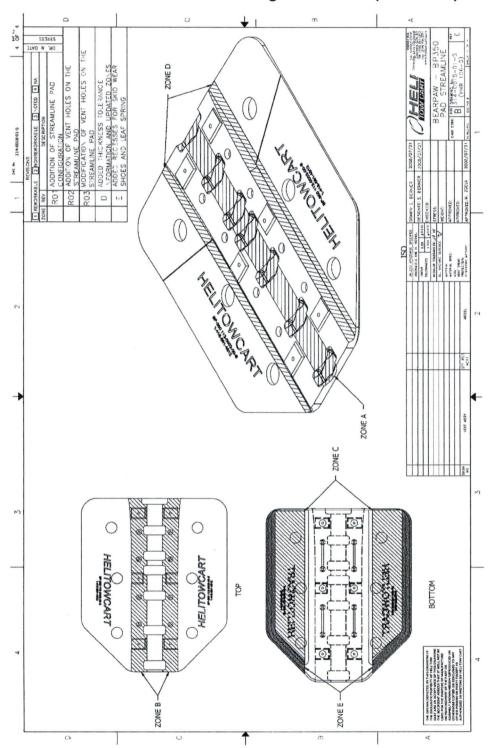


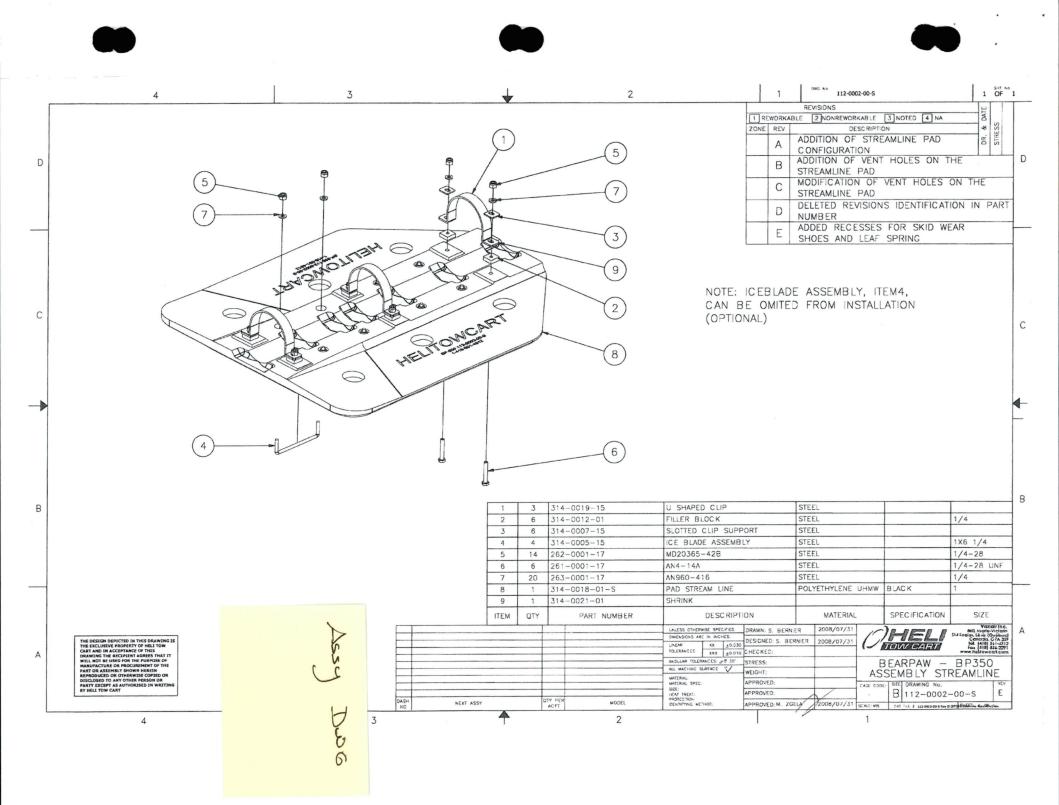
Streamline Pad w/o Recesses - Dwg 314-0018-01 (VNR106-S) Rev A to D

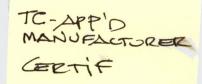




Streamline Pad with Recesses - Dwg 314-0018-01 (VNR106-S) Rev E







Certificate of Approval

This is to certify that

LES ENTREPRISES HÉLITOWCART (VANAIR INC.)

whose place of business is located at

877A Alphonse-Desrochers, SAINT-NICOLAS, LÉVIS, QC

Approved Organization

27-06

is approved pursuant to CAR 561 for the

MANUFACTURE and CERTIFICATION of:

Aeronautical Products

specified in the respective Approval Limitation Records that accompany this certificate

Signed:

Sebastien Lachapelle For the Minister of Transport

Dated:

2008-11-24

Supersedes certificate dated:

2007-12-01

This Certificate is not transferable. The approval is valid until surrendered, suspended or canceled.



Certificat d'agrément

Nous certifions que l'organisme

LES ENTREPRISES HÉLITOWCART (VANAIR INC.)

dont le lieu d'affaires se trouve à

877A Alphonse-Desrochers, SAINT-NICOLAS, LÉVIS, QC

Organisme agréé

27-06

est agréé en vertu de la sous-partie 561 du RAC, en ce qui a trait à la **CONSTRUCTION** et la **CERTIFICATION** de:

Produits aéronautiques

tel qu'il est spécifié dans la fiche de restriction d'agrément qui accompagne ce certificat.

Pour le ministre des Transports

Date: 2008-11-24

Remplace le certificat daté du: 2007-12-01

Ce certificat est incessible. L'agrément est valide jusqu'à son abandon, sa suspension ou son annulation.





Approval Limitation Record

- Aeronautical Product -
- Sub Assemblies and Parts -

LES ENTREPRISES HÉLITOWCART (VANAIR INC.)

the holder of Certificate of Approval Number: 27-06

is limited to the manufacture and certification of the following Aeronautical Products:

Product	Model / Part Number	Approval Number	Effective Date
BEARPAW	HTC-MDL-BP-R44-1000	STC SH06-24,	2007-02-13
	HTC-MDL-BP-AS350/355-1000 ISSUE NO; 3		
	HTC-MDL-BP-EC130-1000		
EXTERNAL POWER RECEPTACLE	HTC-MDL-EGPR-R44-115	STC SH11-46 ISSUE NO:1	2012-03-27

ssued: 2012-03-27 Signed: Land Michel Durand Supersedes pertificate dated: 2007-02-13

Canadä



Fiche de restriction d'agrément

- Produit aéronautique -
- Sous-ensembles et pièces -

LES ENTREPRISES HÉLITOWCART (VANAIR INC.)

Le titulaire du certificat d'agrément nº: 27-06

peut construire et certifier uniquement les produits aéronautiques énumérés ci-dessous :

Produit	Modèle / Pièce n°	N° d'homologation	Mise en vigueur
BEARPAW	HTC-MDL-BP-R44-1000	STC SH06-24, ISSUE NO; 3	2007-02-13
	HTC-MDL-BP-AS350/355-1000		
	HTC-MDL-BP-EC130-1000		
EXTERNAL POWER RECEPTACLE	HTC-MDL-EGPR-R44-115	STC SH11-46 ISSUE NO:1	2012-03-27

Délivré: 2012-03-27 Signature: Maduf Michel Durand Remplace le certificat daté du: 2007-02-13



Department of Transportation -- Federal Abiation Administration

Supplemental Type Certificate

IMPORT

US-STC

Number SR02432NY

This certificate issued to

Helitowcart (Vanair Inc.) 877A, Alphonse-Desrochers Saint-Nicholas, Lévis, Québec Canada G7A 5K6

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of * of the * Regulations.

Original Product - Type Certificate Number: *

Make:

Model: *

* See attached FAA Approved Model List (AML) No. SR02432NY for the list of approved aircraft models, applicable airworthiness regulations, and required documents.

Description of Type Design Change:

- Installation of Helitowcart Bear Paw Models BP350, BP44 or BP130 in accordance with Helitowcart Master Document Lists as specified in AML SR02432NY.
- 2. Instructions for Continued Airworthiness documents as specified in AML SR02432NY are required with this installation.

Limitations and Conditions:

- A copy of this certificate and FAA AML No. SR02432NY must be maintained as part of the permanent records of this modified aircraft.
- 2. The Installer must determine whether this design change is compatible with previously approved modifications.
- If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration

Date of application: March 26, 2007

Date reissued:

Date of issuance.

July 20, 2007

Late amended: January 14, 2013, June 3, 2014

TOMINISTRATION

By direction of the Administrator

Gaetano Sciortino Manager, New York

Aircraft Certification Office

(Title)

FAA APPROVED MODEL LIST (AML) NO. SR02432NY HELITOWCART (VANAIR, INC.) FOR INSTALLATION OF BEAR PAWS

Original Issue Date: July 20, 2007 Amended Date: June 3, 2014

PART	REGULATION	MAKE	MODEL	TCDS		EQUIRED DOCUMENTATION		AML
					MASTER DOCUMENT LIST	INSTALLATION INSTRUCTIONS	INSTRUCTIONS for CONTINUED AIRWORTHINESS	AMENDMENT DATE
27	Federal Aviation	Airbus Helicopters	AS350B, B1, B2, B3, BA, D, D1	H9EU	Helitowcart Inc. Master Document List, Report no. HTC-MDL-BP- AS350/355-1000 Rev. G, approved on December 21, 2012 or later Transport Canada approved revision.	Helitowcart Inc. Installation Instructions - AS350/355, Bear Paw Model BP350, document no. 314-0020-00-E, Rev. F, approved on December 21, 2012 or later Transport Canada approved revision.	Contained within Installation Instructions, page 8 of document no. 314- 0200-00-E, Revision F.	June 3, 2014
27	Federal Aviation	Airbus Helicopters	EC 130B4	H9EU	Helitowcart Inc. Master Document List, Report no. HTC-MDL-BP- EC130-1000 Rev A, approved on May 13, 2011 or later Transport Canada approved revision.	Helitowcart Inc. Installation Instructions – EC130, Bear Paw Model BP130, document no. 314- 0031-00-A, Rev. A, approved May 4, 2011 or later Transport Canada approved revision	Contained within Installation Instructions, page 6 of document no. 314- 0031-00-A, Revision A.	June 3, 2014
27	Federal Aviation	Airbus Helicopters	AS355E, F, F1, F2, N	HIIEU	Helitowcart Inc. Master Document List, Report no. HTC-MDL-BP- AS350/355-1000 Rev. G, approved on December 21, 2012 or later Transport Canada approved revision.	Helitowcart Inc. Installation Instructions - AS350/355, Bear Paw Model BP350, document no. 314-0020-00-E, Rev. F, approved on December 21, 2012 or later Transport Canada approved revision.	Contained within Installation Instructions, page 8 of document no. 314- 0200-00-E, Revision F.	June 3, 2014
27	Federal Aviation	Robinson Helicopter Company	R44, R44 II	HIINM	Helitowcart Inc. Master Document List, Report no. HTC-MDL-BP- R44-1000 Rev. D, approved on August 28, 2013 or later Transport Canada approved revision.	Helitowcart Inc. Installation Instructions - R44/R66, Bear Paw Model BP44, document no. 314-0011-00, Rev. E, approved on August 9, 2013 or later Transport Canada approved revision.	Contained within Installation Instructions, page 6 of document no. 314- 0011-00, Rev. E.	June 3, 2014



Original Issue Date: July 20, 2007 Amended Date: June 3, 2014

PART	REGULATION	MAKE	MODEL	TCDS	REQUIRED DOCUMENTATION		AML	
					MASTER DOCUMENT LIST	INSTALLATION	INSTRUCTIONS for	AMENDMENT
						INSTRUCTIONS	CONTINUED	DATE
						. *	AIRWORTHINESS	
27	Federal Aviation	Robinson	R66	R00015LA	Helitowcart Inc. Master Document	Helitowcart Inc. Installation	Contained within	June 3, 2014
		Helicopter			List, Report no. HTC-MDL-BP-	Instructions - R44/R66, Bear	Installation Instructions,	
		Company			R44-1000 Rev. D, approved on	Paw Model BP44, document	page 6 of document no. 314-	
					August 28, 2013 or later Transport	no. 314-0011-00, Rev. E,	0011-00, Rev. E.	
					Canada approved revision.	approved on August 9, 2013		
						or later Transport Canada		
						approved revision.		

Gaetano Sciortino Manager, New York Aircraft Certification Office





Department of Transport

Supplemental Type Certificati

This approval is issued to:

Helitowcart (Vanair Inc.)

877A, Alphonse-Desrochers

St-Nicholas, Lévis, Québec

Canada G7A 5K6

Number: SH06-24

Issue No.:

Approval Date:

August 17, 2006

Issue Date:

October 10, 2013

Responsible Office:

Ouébec

Aircraft/Engine Type or Model:

See Continuation Sheet on Page 2 of 2

Canadian Type Certificate or Equivalent:

See Continuation Sheet on Page 2 of 2

Description of Type Design Change:

Installation of Helitowcart BearPaw

Installation/Operating Data, Required Equipment and Limitations:

For the Robinson Models R44, R44 II and R66 Helicopters:

Installation of Helitowcart Bear Paw BP44 is to be performed in accordance with TC approved Helitowcart Master Document List Report: HTC-MDL-BP-R44-1000, Revision D dated August 28, 2013, or later Transport Canada approved revision.

The BearPaw must be installed in accordance with Helitowcart Document: 314-0011-00, BearPaw Model BP44, Installation Instructions - R44/R66, Revision E dated August 09, 2013 or later Transport Canada approved revision.

See Continuation Sheet Page 2 of 2



Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated will not adversely affect the airworthiness of the modified product.

For Minister of Transport

Canadä

Number: SH06-24 Issue 4

NOTE: THIS ADDENDUM SHALL REMAIN PART OF THE CERTIFICATE REFERRED TO THEREIN.

Installation/Operating Data, Required Equipment and Limitations (Cont'd):

For the Eurocopter (formerly Aerospatiale) AS350 and AS355 Series Helicopters:

Installation of Helitowcart Bear Paw BP350 is to be performed in accordance with TC approved Helitowcart Master Document List Report: HTC-MDL-BP-AS350/355-1000, Revision F dated April 8, 2010, or later Transport Canada approved revision.

The BearPaw must be installed in accordance with Helitowcart Document: 314-0020-00-E, BearPaw Model BP350, Installation Instructions - AS350/355, Revision F dated December 21, 2012 or later Transport Canada approved revision.

For the Eurocopter EC 130 Helicopters:

Installation of Helitowcart Bear Paw BP130 is to be performed in accordance with TC approved Helitowcart Master Document List Report: HTC-MDL-BP-EC130-1000, Revision A dated May 13, 2011, or later Transport Canada approved revision.

The BearPaw must be installed in accordance with Helitowcart Document: 314-0031-00-A, BearPaw Model BP130, Installation Instructions - EC130, Revision A dated May 04, 2011 or later Transport Canada approved revision.

Fleet Eligibility List				
Make	Model	Type Certificate Data Sheet		
Robinson	R44	H-97		
Robinson	R44 II	H-97		
Robinson	R66	H-111		
Eurocopter	AS 350 B	H-83		
Eurocopter	AS 350 B1	H-83		
Eurocopter	AS 350 B2	H-83		
Eurocopter	AS 350 B3	H-83		
Eurocopter	AS 350 BA	H-83		
Eurocopter	AS 350 D	H-83		
Eurocopter	EC 130 B4	H-83		
Eurocopter	AS 355 E	H-87		
Eurocopter	AS 355 F	H-87		
Eurocopter	AS 355 F1	H-87		
Eurocopter	AS 355 F2	H-87		
Eurocopter	AS 355 N	H-87		

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Traceability data

Qty	Part No.	Desc:	Lot number
34	112 0002 00 S-C	BP350 STREAMLINED	HTC-LNF- (41114-01 HTC-LNF-yymmdd-seq
Include	s:		
	SEE ATTACHET	EXCEL CHART	LN-
			LN-

Inspection Plan

Aspect	Sampling	Inspection	Acceptance parameters
Α	100%	PRESENCE OF ICEBANES IN	BAGS (BEACH)
В	100%	" " DOCEMENTS	
C	100%	ALL LN MATCH PARTS FOR	
D	1.00 .	" COMPONENTS INTO BA	65
	100 %	BOX APPROPRIATECY IDEA	
Inspectio	n Plan approved	by: N. BARBEAU	Date: 2014 // /4

Inspection Records

Ok = T + initials

Date:	Quantity	Α		В	_	С		D .		E	Notes
2014 11 14	34 PAIRS	2	DB	Du	PB	on	NB	eu	NB	ou DB	2 BAS WITH ESTHETIC IRRI
											ACCEPTED BY DERUGATION
											SEE ATTACHED PICTURES
		<u> </u>									
		_									
		_									

Release certificates issue	Rele	ease	certificates	issue
----------------------------	------	------	--------------	-------

	-			
Release Certificates issued: yes	no	By:	N. / Deleger	Date: 2014 11 14
Comments:				

HTC-LNF-141114-01 TO 34

HTC-RC-141114-01											
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 26 28 29 30 31 32 33 34	HTC-LNF-141114-01	P/N	Qté par paire		Qté totale pièces		04.	1 - 1 - 2	Obi	1 -1 2	Otri
1 2 3 4 3 0 7 0 9 10 11 12 13 14 13 10 17 10 13 20 21 22 23 24 23 20 20 20 23 30 31 32 33 34		P/N	paire	req	pieces	Lot 1	Qty	Lot 2	Qty	Lot 3	Qty
Pads							- 1				- 1
	Bp pads STREAMLINE	314 0018 01 C	2	34	68	LN-141114-02	68				
Iceblade Assy (***not installed, simply inserted parts into bag)			- 1								
L1 L1 L1 L1 L1 L1 L1 L1 L2 L2 L2 L2 L2 L2 L2 L3	Iceblade Assy	263 0005 15 C	8	34	272	LN-110323-05	64	LN-121127-01	48	LN-141106-01	160
	Nuts	262 0001 17 A	16	34	544	API LN82695/722940	544				
L1 L	Washers	263 0001 17 A	16	34	544	API LN84514/Y1782	320	API LN82767/X4902	224		1
L2											
Bags with parts for customer assy of Front U-clips							- 1				
<u> </u>	U-shaped Clips	314 0019 15 B	6	34	204	LN-141106-03	180	LN-121117-05	24		
	Slotted clip Supports	314 0007 15 B	12	34	408	LN-141106-02	408				. 1
	Bolts AN4-14A	261 0001 17 A	12	34	408	API LN80195/4475	400	AircSpruce LN74944/14597	2	API LN81271/22475	6
L2 L3 L3 L3											,
	Nuts	262 0001 17 A	12	34	408	API LN82695/722940	408				
L1 L	Washers	263 0001 17 A	24	34	816	API LN84514/Y1782	480	API LN82767/X4902	336		
L2											
	Filler blocks 1/4"	314 0012 02 A	12	34	408	LN-121220-01	408				

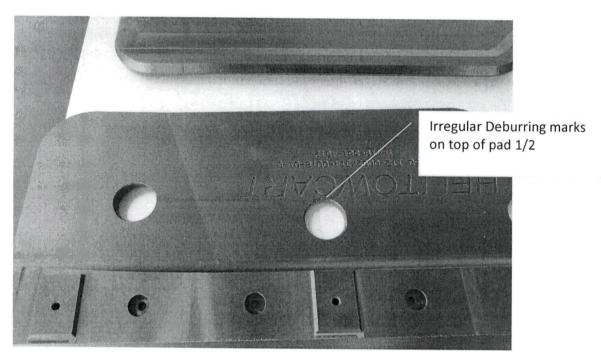
2014 11 1A

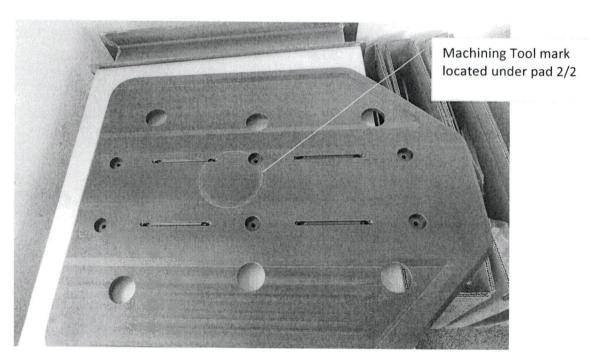
Helitowcart Bearpaws BP350

Object: Esthetic Irregularities / Pair ID number: LNF-141114-34

Irregularities on surface have no impact on product performance.

Accepted by Derogation by Nathalie Barbeau, Quality Director, Helitowcart. 2014 11 14.







Master Document List

Helitowcart

Eurocopter Model AS 350/355 Series Helicopters Installation of BearPaw Model BP350

Report: HTC-MDL-BP-AS350/355-1000 (Rev G)

APPROVED BY:

Mirko Zgela

DATE: DECEMBER 21,2012

Design Approval Representative DAR #310

Revision	Revision Date	Revision of Entry	Entered by
Α	Nov 22, 2006	Initial issue	N/A
В	Jan 28, 2007	Revision performed to the Installation Instructions (Doc # HTC-314-0020-00)	M.Z.
С	Feb 28, 2007	Addition of streamline pad configuration. Revision performed to the Installation Instructions (Doc # HTC-314-0020-00)	M.Z.
D	July 27, 2008	Addition of vents holes in the streamline pad.	M.Z.
E	Aug 01, 2008	Modification of vents holes in the streamline pad.	M.Z.
F April 8, 2010		Revision performed to the Installation Instructions (Doc # HTC-314-0020-00)	M.Z.
G December 21, 2012		Updated Tolerance data regarding Pad and Updated referenced document identification and revisions	M.Z.

minor changes following ECOHS

Tel 1-418-561-4512, Fax: 1-418-836-2291, info@helitowcart.com www.helitowcart.com 860 Marie-Victorin, Saint-Nicolas, Levis, Quebec, Canada, G7A 3S9

2017 06 01



1.0 MASTER DOCUMENTS

Document #	Title	Revision Status	Approval by	Date
AAC-CPL-BP-AS350/355- 1000	Compliance Plan – Eurocopter Model AS350/355 Series Helicopters – Installation of BearPaw Model BP350	NC	DAR 310	Nov 22, 2006
HTC-314-0020-00-E	BearPaw Model BP350 – Installation Instruction – AS350/355 Series Helicopters	F	DAR 310	Dec 21, 2012
AAC-STR-BP-AS350/355- 1000	Structural Substantiation – Helitowcart Inc. BearPaw Model BP350	NC	DAR 310	Nov 20, 2006
AAC-FTR-C-GZNC	Simple External Modification – Applicant's Flight Test Plan/Report	NC	DAR 310	Nov 21, 2006
HTS-EO-0709-002	Bear Paw Model BP350 Vent Holes	A	DAR 310	July 31, 2008
HTC-MEM-0709-001	Memorandum – Vent Hole BP350 BearPaw	Α	DAR 310	July 31, 2008

2.0 MASTER DRAWINGS

Drawings #	Title	Revision Status	Approval by	Date
112-0002-00	BearPaw BP350 - Assembly	В	DAR 310	Nov 20, 2006
112-0002-00-S	BearPaw BP350 – Assembly Streamline	D	DAR 310	Dec 21, 2012
314-0002-15 (VNR084)	BearPaw Iceblade	A (R01)	DAR 310	Apr 24, 2006
314-0004-15 (VNR085)	BearPaw – Iceblade Threaded Rod	A (R01)	DAR 310	Apr 24, 2006
314-0005-15 (VNR086)	BearPaw - Iceblade Assembly	A (R01)	DAR 310	Apr 24, 2006
314-0007-15 (VNR089)	Bearpaw - Slotted Clip Support	B (R04)	DAR 310	July 31, 2006
314-0012-01 (VNR099)	Filler Block 1/4"	A (R01)	DAR 310	Aug 8, 2006
314-0018-01 (VNR106)	BearPaw BP350 - Pad	B (R02)	DAR 310	Sept 26, 2006
314-0018-01-S (VNR106-S)	BearPaw BP350 - Pad Streamline	D	DAR 310	Dec 21, 2012
314-0019-15 (VNR107)	BearPaw BP350 - U Shaped Clip	A (R01)	DAR 310	Sept 29, 2006



3.0 REFERENCE DOCUMENTS

Document #	Title	Revision Status	Approval by	Date
314-0009-01	Ultra High Molecular Weight Polyethylene – Typical Properties	Α	N/A	May 24, 2006
314-0008-01	Material Properties - UHMW TIVAR	Α	N/A	May 24, 2006
314-0017-05	Heat Shrink Specifications	Α	N/A	Sept 6, 2006



TABLE OF CONTENTS:

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INTRODUCTION

Scope

This installation instruction describes the step-by-step approach to install and to perform maintenance of the Helitowcart BearPaw Model BP 350 (P/N 112-0002-00 or P/N 112-0002-00-S) for the AS 350 and AS 355 series helicopters.

General

The Helitowcart BearPaw is made of machined UHMW TIVAR® polymer sheet. This material combines high-impact performance, low friction and good resistance to chemical. Its high durability will provide superior performance when installed on your helicopter. Any question regarding the Helitowcart BearPaw system shall be directed to Helitowcart Customer Support as indicated in Table (1):

Table 1 - Helitowcart Customer Support

Care of	Mailing Address	Phone, Fax & Email:
Customer Support	860 Marie-Victorin	Tel:1 (418) 561-4512
Helitowcart BearPaw	St-Nicholas, Levis, Quebec,	Fax:1 (418) 836-4575
Helitowcart (Vanair inc)	Canada, G7A 3S9	info@helitowcart.com

Helicopter Effectivity

This installation instruction applies to the following helicopter models:

Table 2 - Helicopter Model Effectivity

Make	Model	Transport Canada Type Certificate Data Sheet
Eurocopter	AS 350 D	
Eurocopter	AS 350 D1	
Eurocopter	AS 350 B	
Eurocopter	AS 350 B1	H-83
Eurocopter	AS 350 B2	
Eurocopter	AS 350 B3	
Eurocopter	AS 350 BA	
Eurocopter	AS 355 E	
Eurocopter	AS 355 F	
Eurocopter	AS 355 F1	H-87
Eurocopter	AS 355 F2	
Eurocopter	AS 355 N	

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Installer Responsibilities

The installer shall ensure that the installation of the Helitowcart BearPaw does not conflict with any other part of the helicopter configuration. Technicians performing this installation should be familiar with A/C work and should have been familiarized with the different Helitowcart BearPaw system components prior to performing a first time installation. All steps in this procedure must be followed. Deviations from the procedures may result in potential structural failure or equipment malfunction and will result in a non-compliant installation.



INSTALLATION

BearPaw Installation

Reference Documentation:

[1] Helicopter Maintenance Manual AS 350 or AS 355 as applicable.

Step 1: Helicopter Preparation

- Ensure the helicopter is safe for maintenance;
- Lift the helicopter using the manufacturer recommended practice provided in Ref [1] as applicable to your helicopter model to allow a ground clearance of the skid in the area of the aft cross tube of approximately 1 ½" (38mm);

Note: The BearPaw Model BP350 (P/N 112-0002-00 or P/N 112-0002-00-S) can be installed with or without the skid tube wear shoes.

Step 2: IceBlade Installation

Note: The BearPaw Model BP350 (P/N 112-0002-00 or P/N 112-0002-00-S) can be installed with or without the IceBlades

- With IceBlade Option
- Install ice blades (Qty: 4) (Iceblades P/N 314-0005-15) under BearPaw pad as per drawing (112-0002-00 or 112-0002-00-S) provided at Annex A.
- Secure ice blades with washer (Washer P/N 263-0001-17) and nut (P/N 262-0001-17).

Step 3: BearPaw Installation

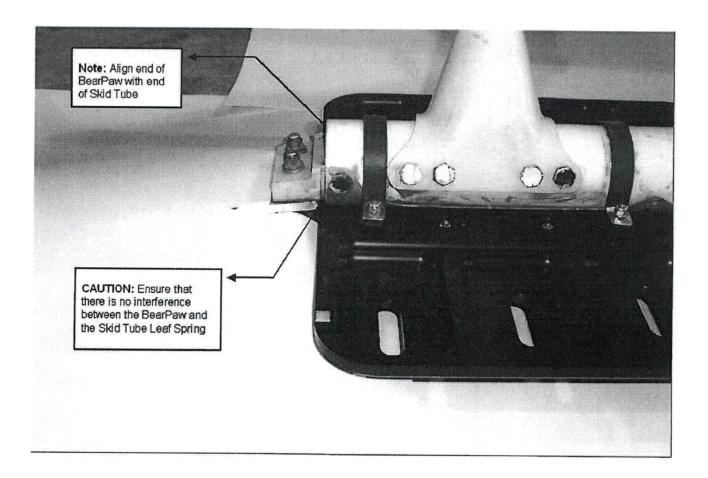
- Position the BearPaw under the skid as shown in Figure 1 with narrow edge pointing forward.
- Insert washers (P/N 263-0001-17) through all six bolts: 6x(261-0001-17);
- Insert bolts (P/N 261-0001-17) and washer (Washer P/N 263-0001-17) through BearPaw pad as per drawing (112-0002-00 or 112-0002-00-S) provided at Annex A;
- Insert filler blocks (P/N314-0012-01) as per drawing (112-0002-00 or 112-0002-00-S) provided at Annex A;

Note: The use of filler blocks (P/N314-0012-01) may be replaced or complemented by the use of washers (P/N 263-0001-17) to fill in the gap. Bolts (P/N 261-0001-17) may be replaced by longer or shorter AN4 bolts as required.

- Insert both U-shaped clips (P/N 314-0019-15) through bolts: 6x(261-0001-17);
- Insert slotted clip supports (P/N 314-0007-15) through all six bolts. Position slotted clip supports with rounded edge toward helicopter skid;
- Insert washer (P/N 263-0001-17) & screw nuts (P/N 262-0001-17) for a tight fit. Max. torque on nuts 60 in.-lb;
- Remove helicopter from lift;
- Amend Weight & Balance records as required using data provided in Table 3.



Figure 1 - BearPaw Model BP350 (P/N 112-0002-00 or P/N 112-0002-00-S) - Alignment on Skid





BearPaw Removal

Step 1: Helicopter Preparation

- · Ensure the helicopter is safe for maintenance;
- Lift the helicopter using the manufacturer recommended practice provided in Ref [1] to allow a clearance of the skid in the area of the aft cross tube of approximately 1 ½" (38mm);

Step 2: BearPaw Removal

- Remove nuts (P/N 262-0001-17), slotted clip support (P/N 314-0007-15) on U-shaped clips (P/N 314-0019-15),
- Remove washers (P/N 263-0001-17), U-shaped clips (P/N 314-0019-15), filler blocks (P/N314-0012-01), and remove BearPaw pad (P/N 314-0018-01) or (P/N 314-0018-01-S Streamline);
- Inspect skid tubes to confirm serviceability
- If the skid tube shoes have been removed, re-install shoes as per reference [1];
- Complete installation by putting helicopter back to normal position by removing lift status;
- Amend Weight & Balance records as required using data provided in Table 3.

Weight & Balance

The following information should be used to amend the helicopter weight and balance information following the installation or removal:

Table 3 - Weight & Balance Data

Item	Weight	Lat	eral	Longitudinal		
	Troight	Arm	Moment	Arm	Moment	
Helitowcart BearPaw Model BP350 (P/N 112-0002-00)	19,9 Lb 9,0 Kg	N/A	N/A	159,4 in. 404.9 cm	3172.0 in-lb 36.44 m-kg	
Helitowcart BearPaw Model BP350 - <u>Streamline</u> (P/N 112-0002-00-S)	18,3 Lb 8,5 Kg	N/A	N/A	159,4 in. 404.9 cm	2917.0 in-lb 34.41 m-kg	

Note: Weight and moment provided are for full kit installation.



Parts Lists

The Helitowcart BearPaw detailed parts list is as follow:

Table 4 - Parts List

	T	T		
Description	Qty	Part / Dwg No.	Additional Drawing Reference No./ Name	
BearPaw Model BP350	1	112-0002-00	112-0002-00 / BearPaw Assembly, or 112-0002-00-S /Bear Paw Streamline Assembly	
BearPaw pad (1)	1	314-0018-01	BearPaw BP350 – Pad (VNR106)	
BearPaw pad streamline (1)	1	314-0018-018	BearPaw BP350 - Pad Streamline (VNR106-S)	
U Shaped Clips	3	314-0019-15	BearPaw BP350 - U Shaped Clips (VNR107)	
Slotted Clip Support	6	314-0007-15	BearPaw - Slotted Clip Support (VNR089)	
Filler blocks 1/4"	6	314-0012-01	BearPaw – Filler block 1/2" (VNR099)	
Bolts	6	261-0001-17	Bolt- AN4-14	
Nuts	6	262-0001-17	Nut- MS20365-428	
Washers	12	263-0001-17	Washer - AN960-416	
Shrink	3	314-0021-01	BearPaw – Shrink Specifications & Install.(1"x6.25")	
IceBlade Option Model OIB	4	314-0005-15	IceBlade Assembly (VNR086)	
Nuts	8	262-0001-17	Nut- MS20365-428	
Washers	8	263-0001-17	Washer - AN960-416	

Note (1): Use pocked shaped BearPaw Pad P/N 314-0018-01 for assembly P/N 112-0002-00. Use streamlined Pad P/N 314-0018-01-S for assembly P/N 112-0002-00-S as applicable.

INSPECTION

Life Limited Items

Three are no life limited items for the Helitowcart BearPaw.

Pre-Flight

Before each flight the following items should be inspected:

- · Check that attachment bolts are installed and secured,
- Check that BearPaws are free from visible damage,
- If damage is found, verify allowable damage according to:
 Tables 5 & 6 Tolerances for cracks & wear and
 Annex B BearPaw Allowable Damage Drawing 314-0018-01 (VNR-106) page 2 of 2 for Pocket pad or 314-0018-01-S (VNR106-S) page 3 of 3 for Streamlined Pad.

Periodic Inspection Schedule

- The Helitowcart BearPaw shall be inspected every 500 flying hours or yearly whichever comes first.
- The Helitowcart BearPaw can be inspected concurrently with the helicopter landing gear inspection.
- Recommended tolerance for performance of inspection is +/- 10% of the 500 hours period.
- Following an inspection, subsequent interval shall be adjusted to meet the original schedule from time
 of inspection. If inspection is performed earlier than the 10% tolerance, then following inspections
 shall be scheduled not to exceed the above mentioned tolerance.

500 Hour or Yearly Inspection Details

- Remove Helitowcart BearPaw: See Section "BearPaw Removal",
- Inspect all parts for damage & wear. See table & figure below for allowable damage,
- Replace all damaged parts,
- Replace parts worn beyond the tolerances indicated below.
- See Tolerances for cracks & wear:
 Tables 5 & 6 Tolerances for cracks & wear and
 Annex B BearPaw Allowable Damage Drawing 314-0018-01 (VNR-106) page 2 of 2 for Pocket pad or 314-0018-01-S (VNR106-S) page 3 of 3 for Streamlined Pad.

Table 5 - Tolerances for Cracks & Wear / Pocket Pad 314-0018-01 (VNR 106)

Zone	Nominal Dimension (Inches)	Allowable Damage/Wear (Inches)	Cracks
Α	0,50	0,050	
В	1,000	0,250	
С	0,375	0,075	Pockets: Cracks are acceptable in the Helitowcart BearPaw pocket areas to a maximum length of 0,5" provided they are 0,25" away from the stiffener radius change. Stop drill cracks with a 0,125" hole.
D	0,50	0,050	Stiffeners: NO cracks in stiffeners.

Table 6 - Tolerances for Cracks & Wear / Streamline Pad 314-0018-01-S (VNR 106-S)

Zone	Nominal Dimension (Inches)	Allowable Damage/Wear (Inches)	Cracks
Α	0,50	0,050	
В	1,000; and 0.88	0,250	
С	0.273 to 0,348 (variable thickness)	0,075	Pockets: Cracks are acceptable in the pocket under the Helitowcart BearPaw to a maximum length of 0,5". Stop drill cracks with a 0,125" hole.
D	0,49 (thickness after radius)	0,075	No cracks in the radius
Е	0,38	0,075	No cracks in the BearPaw contour

Overhaul Requirements

Not applicable for the designated application of this device.



REVISIONS & APPROVAL

Revisions

Date	Rev	Nature of Revisions	
Nov 20,2006	Α	Initial issue	
Jan 29, 2007	В	Minor editorials. Change to weight & Balance Data to reflect production model. Change in inspection schedule from 300 to 500 hours to match existing landing gear periodicity.	
Feb 28, 2008	С	Introduction of new streamline BearPaw Pad configuration as alternate.	
Aug 01, 2008	D	Modification of vent holes on the streamline pad	
April 8, 2010	E	Correction to C of G data	
December 21, 2012	F	Updated Pad Tolerances and Document identifications . Improved page set up for reader convenience.	

Approval

Internal Approval :		
Helitowcart inc.	Lucia Barteon	Date: Dec 21, 2012
	Lucien Barbeau, President	
External Approval :		
Transport Canada	Mirko Zgela, DAR #210	Date: Dec 21, 2012

Annex A

See: BearPaw Assembly, drawing no. (112-0002-00) for Pocket style pad or; BearPaw Assembly, drawing no. (112-0002-00-S) for Streamline style pad

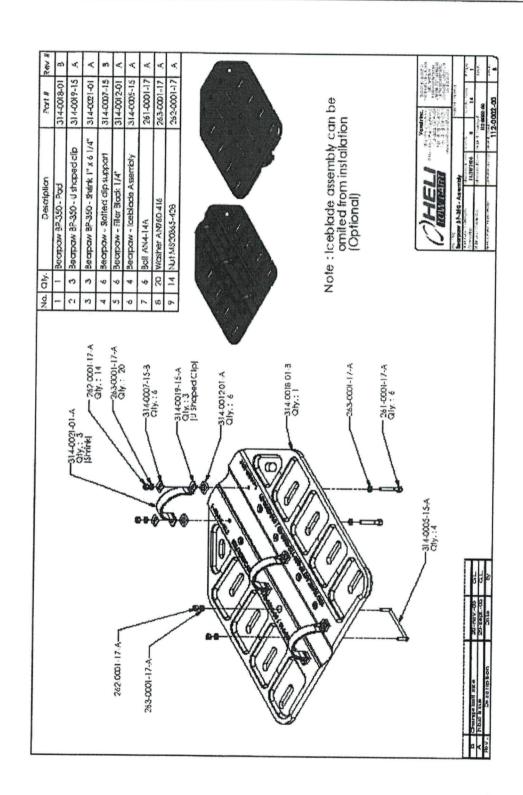
Annex B

See: BearPaw Pad, drawing no. 314-0018-01 (VNR106) page 2 of 2 for Pocket style pad or; BearPaw Pad, drawing no. 314-0018-01-S (VNR106-S) page 3 of 3 for Streamline style pad.



Annex A
BearPaw Assembly, Drawing no. 112-0002-00.

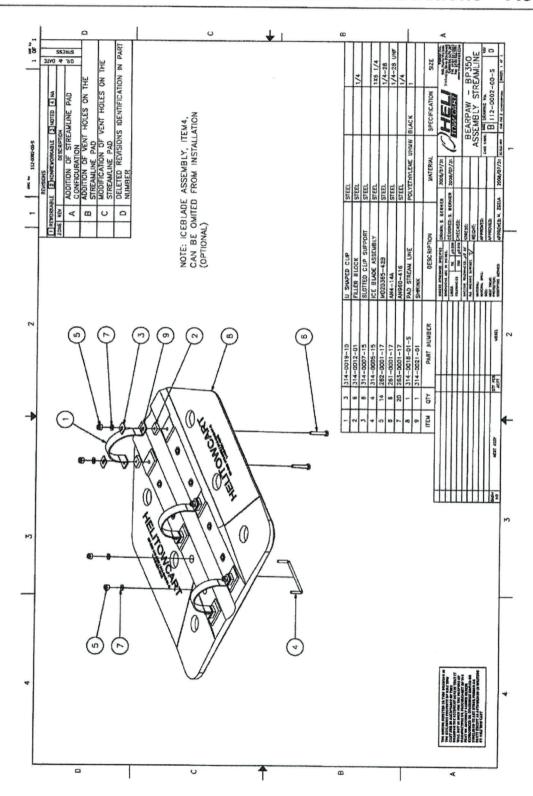






Annex A
BearPaw Assembly, Drawing no. P/N 112-0002-00-S.

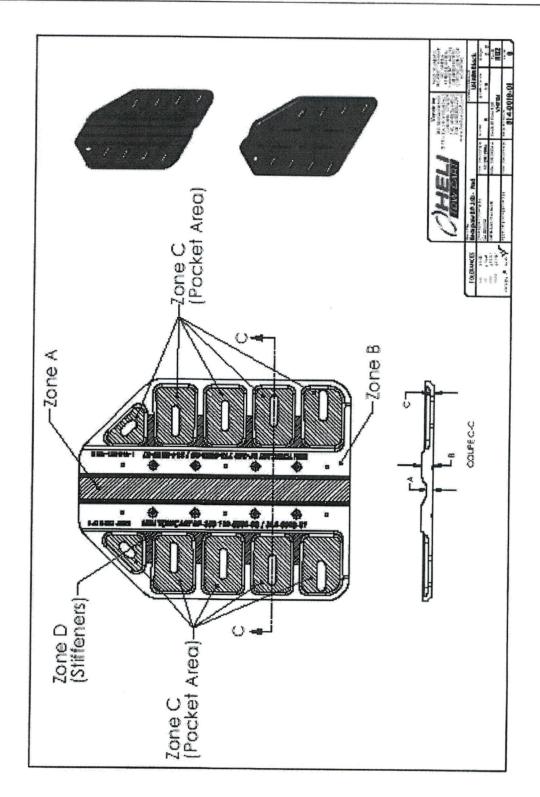






Annex B
BearPaw Pad, Drawing no. 314-0018-01 (VNR106) Page 2 of 2 Pocket Style Pad.



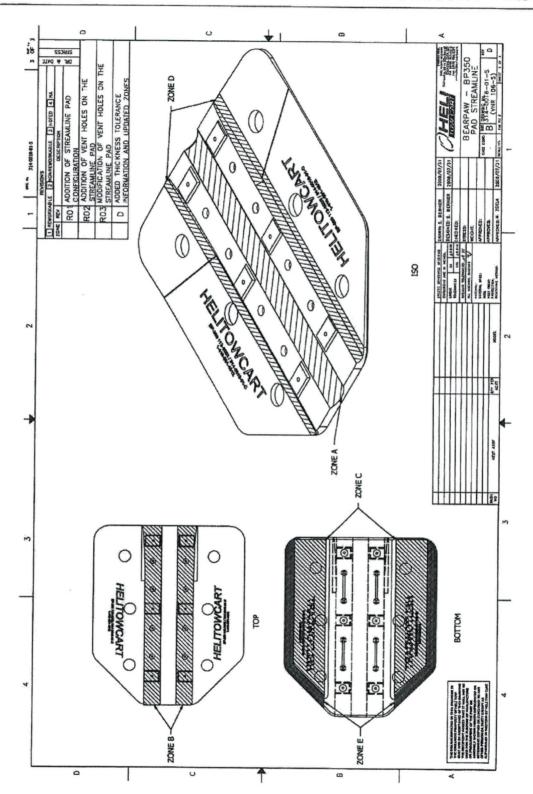




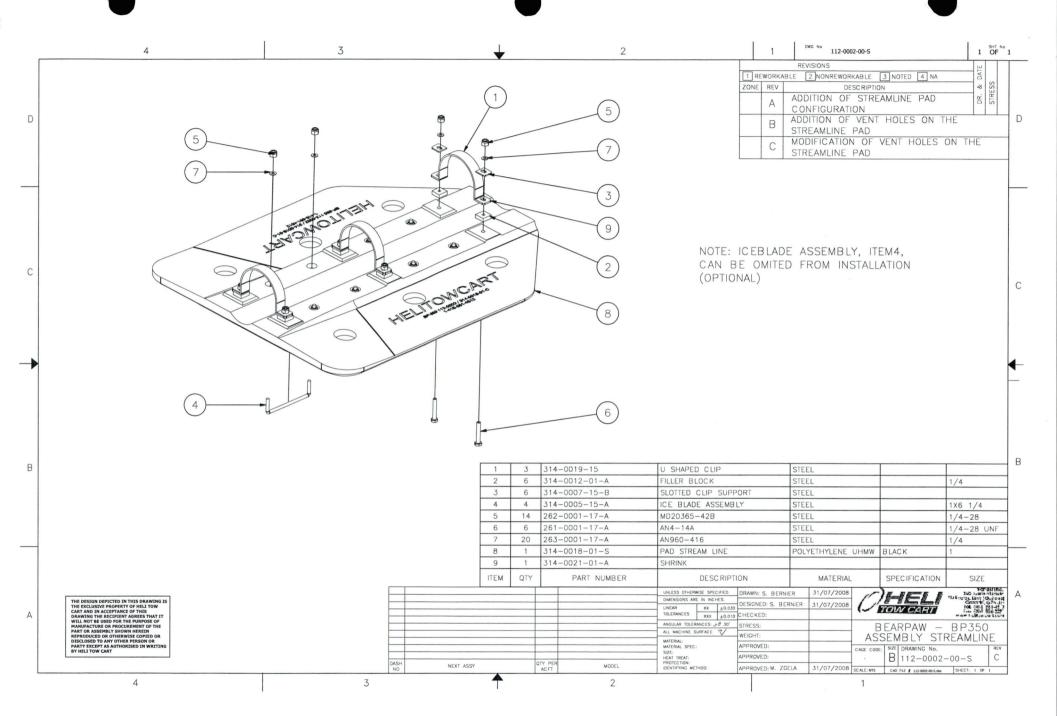
Annex B

BearPaw Pad, Drawing no. 314-0018-01-S (VNR106-S) Page 3 of 3 Streamline Style Pad.





Page 18 of 18





Master Document List

Helitowcart

Eurocopter Model AS 350/355 Series Helicopters Installation of BearPaw Model BP350

Report: HTC-MDL-BP-AS350/355-1000 (Rev F)

APPROVED BY:

DATE: APRIL 8, 2010

	Mirko Zgela					
	Design Approval Representative DAR #310					
Revision	Revision Date	% Revision of Entry	Entered by			
А	Nov 22, 2006	Initial issue	N/A			
В	Jan 28, 2007	Revision performed to the Installation Instructions (Doc # HTC-314-0020-00)	M.Z.			
С	Feb 28, 2007	Addition of streamline pad configuration. Revision performed to the Installation Instructions (Doc # HTC-314-0020-00)	M.Z.			
D	July 27, 2008	Addition of vents holes in the streamline pad.	M.Z.			
Е	Aug 01, 2008	Modification of vents holes in the streamline pad.	M.Z.			
F	April 8, 2010	Revision performed to the Installation Instructions (Doc # HTC-314-0020-00)	M.Z.			



1.0 MASTER DOCUMENTS

Document #	Title	Revision Status	Approval by	Date
AAC-CPL-BP-AS350/355- 1000	Compliance Plan – Eurocopter Model AS350/355 Series Helicopters – Installation of BearPaw Model BP350	NC	DAR 310	Nov 22, 2006
HTC-314-0020-00	BearPaw Model BP350 – Installation Instructions – AS350/355 Series Helicopters	Е	DAR 310	April 8, 2010
AAC-STR-BP-AS350/355- 1000	Structural Substantiation – Helitowcart Inc. BearPaw Model BP350	NC	DAR 310	Nov 20, 2006
AAC-FTR-C-GZNC	Simple External Modification – Applicant's Flight Test Plan/Report	NC	DAR 310	Nov 21, 2006
HTS-EO-0709-002	Bear Paw Model BP350 Vent Holes	А	DAR 310	July 31, 2008
HTC-MEM-0709-001	Memorandum – Vent Hole BP350 BearPaw	А	DAR 310	July 31, 2008

2.0 MASTER DRAWINGS

Drawings #	Title	Revision Status	Approval by	Date
112-0002-00	BearPaw BP350 - Assembly	В	DAR 310	Nov 20, 2006
112-0002-00 <mark>-S</mark>	BearPaw BP350 – Assembly Streamline	C	DAR 310	July 31, 2008
VNR084	BearPaw – Iceblade	R01	DAR 310	Apr 24, 2006
VNR085	BearPaw – Iceblade Threaded Rod	R01	DAR 310	Apr 24, 2006
VNR086	BearPaw – Iceblade Assembly	R01	DAR 310	Apr 24, 2006
VNR106	BearPaw BP350 - Pad	R02	DAR 310	Sept 26, 2006
VNR106-S	BearPaw BP350 – Pad Streamline	R03	DAR 310	July 31, 2008
VNR107	BearPaw BP350 - U Shaped Clip	R01	DAR 310	Sept 29, 2006
VNR089	Bearpaw – Slotted Clip Support	R04	DAR 310	July 31, 2006
VNR099	Filler Block 1/4"	R01	DAR 310	Aug 8, 2006



3.0 REFERENCE DOCUMENTS

Document #	Title	Revision Status	Approval by	Date
314-0009-01-A	Ultra High Molecular Weight Polyethylene – Typical Properties	А	N/A	May 24, 2006
314-0008-01-A	Material Properties - UHMW TIVAR	Α	N/A	May 24, 2006
314-0017-05-A	Heat Shrink Specifications	А	N/A	Sept 6, 2006



TABLE OF CONTENTS:

BearPaw Model BP350 Installation Instructions - AS350/355

INTRODUCTION **p.2** Scope p.2 General p.2 Helicopter Effectivity p.2 Installer Responsibilities p.3 INSTALLATION **p.3** BearPaw Installation p.3 BearPaw Removal p.5 Weight & Balance p.5 Parts List p.5 INSPECTION **p.6** Life Limited Items p.6 Pre-Flight p.6 Periodic Inspection Schedule p.6 500 Hour or Yearly Inspection Details p.6 Overhaul Requirements p.6

o p.7

REVISIONS & APPROVAL

Annex A (BearPaw Assembly Drawing) Annex B (BearPaw Pad Drawing)



INTRODUCTION

Scope

This installation instruction describes the step-by-step approach to install and to perform maintenance of the Helitowcart BearPaw Model BP 350 (P/N 112-0002-00 or P/N 112-0002-00-S) for the AS 350 and AS 355 series helicopters.

General

The Helitowcart BearPaw is made of machined UHMW TIVAR® polymer sheet. This material combines high-impact performance, low friction and good resistance to chemical. Its high durability will provide superior performance when installed on your helicopter. Any question regarding the Helitowcart BearPaw system shall be directed to Helitowcart Customer Support as indicated in Table (1):

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Helitowcart (Vanair inc)	Canada, G7A 3S9	info@helitowcart.com

Helicopter Effectivity

This installation instruction applies to the following helicopter models:

Table 2 - Helicopter Model Effectivity

Make	Model	Transport Canada Type Certificate Data Sheet
Eurocopter	AS 350 D	
Eurocopter	AS 350 D1	
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Eurocopter	AS 350 B1	H-83
Eurocopter	AS 350 B2	
Eurocopter	AS 350 B3	~
Eurocopter	AS 350 BA	
Eurocopter	AS 355 E	
Eurocopter	AS 355 F	
Eurocopter	AS 355 F1	H-87
Eurocopter	AS 355 F2	
Eurocopter	AS 355 N	



Installer Responsibilities

The installer shall ensure that the installation of the Helitowcart BearPaw does not conflict with any other part of the helicopter configuration. Technicians performing this installation should be familiar with A/C work and should have been familiarized with the different Helitowcart BearPaw system components prior to performing a first time installation. All steps in this procedure must be followed. Deviations from the procedures may result in potential structural failure or equipment malfunction and will result in a non-compliant installation.

INSTALLATION

BearPaw Installation

Reference Documentation:

[1] Helicopter Maintenance Manual AS 350 or AS 355 as applicable.

Step 1: Helicopter Preparation

- Ensure the helicopter is safe for maintenance;
- Lift the helicopter using the manufacturer recommended practice provided in Ref [1] as applicable to your helicopter model to allow a ground clearance of the skid in the area of the aft cross tube of approximately 1 ½" (38mm);

Note: The BearPaw Model BP350 (P/N 112-0002-00 or P/N 112-0002-00-S) can be installed with or without the skid tube wear shoes.

Step 2: IceBlade Installation

Note: The BearPaw Model BP350 (P/N 112-0002-00 or P/N 112-0002-00-S) can be installed with or without the IceBlades

- With IceBlade Option
- Install ice blades (Qty: 4) (Iceblades P/N 314-0005-15) under BearPaw pad as per drawing (112-0002-00 or 112-0002-00-S) provided at Annex A.
- Secure ice blades with washer (Washer P/N 263-0001-17) and nut (P/N 262-0001-17).

Step 3: BearPaw Installation

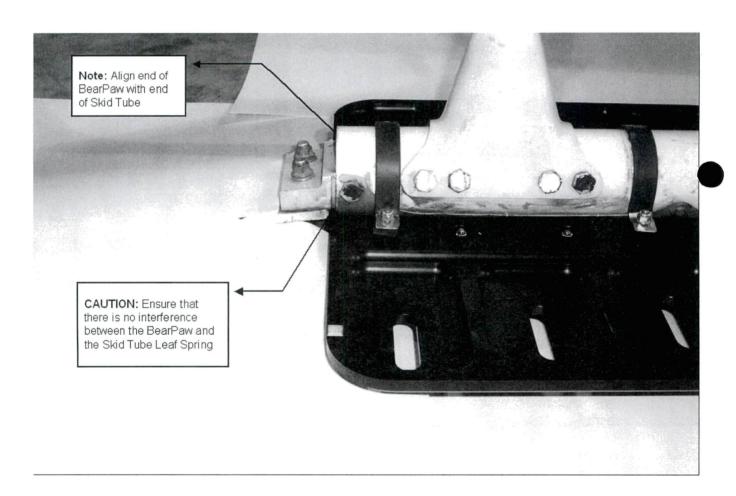
- Position the BearPaw under the skid as shown in Figure 1 with narrow edge pointing forward.
- Insert washers (P/N 263-0001-17) through all six bolts: 6x(261-0001-17);
- Insert bolts (P/N 261-0001-17) and washer (Washer P/N 263-0001-17) through BearPaw pad as per drawing (112-0002-00 or 112-0002-00-S) provided at Annex A;
- Insert filler blocks (P/N314-0012-01) as per drawing (112-0002-00 or 112-0002-00-S) provided at Annex A;

Note: The use of filler blocks (P/N314-0012-01) may be replaced or complemented by the use of washers (P/N 263-0001-17) to fill in the gap. Bolts (P/N 261-0001-17) may be replaced by longer or shorter AN4 bolts as required.



- Insert both U-shaped clips (P/N 314-0019-15) through bolts: 6x(261-0001-17);
- Insert slotted clip supports (P/N 314-0007-15) through all six bolts. Position slotted clip supports with rounded edge toward helicopter skid;
- Insert washer (P/N 263-0001-17) & screw nuts (P/N 262-0001-17) for a tight fit. Max. torque on nuts 60 in.-lb:
- · Remove helicopter from lift;
- Amend Weight & Balance records as required using data provided in Table 3.

Figure 1 - BearPaw Model BP350 (P/N 112-0002-00 or P/N 112-0002-00-S) - Alignment on Skid





BearPaw Removal

Step 1: Helicopter Preparation

- Ensure the helicopter is safe for maintenance;
- Lift the helicopter using the manufacturer recommended practice provided in Ref [1] to allow a clearance of the skid in the area of the aft cross tube of approximately 1 ½" (38mm):

Step 2: BearPaw Removal

- Remove nuts (P/N 262-0001-17), slotted clip support (P/N 314-0007-15) on U-shaped clips (P/N 314-0019-15),
- Remove washers (P/N 263-0001-17), U-shaped clips (P/N 314-0019-15), filler blocks (P/N314-0012-01), and remove BearPaw pad (P/N 314-0018-01);
- Inspect skid tubes to confirm serviceability
- If the skid tube shoes have been removed, re-install shoes as per reference [1];
- Complete installation by putting helicopter back to normal position by removing lift status;
- Amend Weight & Balance records as required using data provided in Table 3.

Weight & Balance

The following information should be used to amend the helicopter weight and balance information following the installation or removal:

Table 3 - Weight & Balance Data

Item	Weight Late		eral	Long	Longitudinal	
ILCIII			Moment	Arm	Moment	
Helitowcart BearPaw Model BP350 (P/N 112-0002-00)	19,9 Lb 9,0 Kg	N/A	N/A	159,4 in. 404.9 cm	3172.0 in-lb 36.44 m-kg	
Helitowcart BearPaw Model BP350 - Sreamline (P/N 112-0002-00-S)	18,3 Lb 8,5 Kg	N/A	N/A	159,4 in. 404.9 cm	2917.0 in-lb 34.41 m-kg	

Note: Weight and moment provided are for full kit installation.

Parts Lists

The Helitowcart BearPaw detailed parts list is as follow:

Table 4 - Parts List

Description	Qty	Part No.	Drawing no./name
BearPaw Model BP350	1	112-0002-00	VNR(112-0002-00) / BearPaw Assembly VNR (112-0002-00-S) /Bear Paw Streamline Assembly
BearPaw pad (1)	1	314-0018-01	VNR106 / BearPaw BP350 - Pad
BearPaw pad streamline (1)	1	314-0018-01S	VNR106S / BearPaw BP350 - Pad Streamline
U Shaped Clips	3	314-0019-15	VNR107 / BearPaw BP350 - U Shaped Clips
Slotted Clip Support	6	314-0007-15	VNR089 / BearPaw - Slotted Clip Support



Filler blocks 1/4"	6	314-0012-01	VNR099 / BearPaw - Filler block 1/4"
Bolts	6	261-0001-17	Bolt- AN4-14
Nuts	6	262-0001-17	Nut- MS20365-428
Washers	12	263-0001-17	Washer - AN960-416
Shrink	3	314-0021-01	BearPaw – Shrink Specifications & Install.(1"x6.25")
IceBlade Option Model OIB	4	314-0005-15	VNR086 / IceBlade Assembly
Nuts	8	262-0001-17	Nut- MS20365-428
Washers	8	263-0001-17	Washer - AN960-416

Note (1): Use BearPaw Pad P/N 314-0018-01 for VNR P/N 112-0002-00 and BearPaw Pad P/N 314-0018-01-S for VNR P/N 112-0002-00-S as applicable.

INSPECTION

Life Limited Items

Three are no life limited items for the Helitowcart BearPaw.

Pre-Flight

Before each flight the following items should be inspected:

- · Check that attachment bolts are installed and secured,
- Check that BearPaws are free from visible damage,
- If damage is found, verify allowable damage according to:
 Table 5 Tolerances for cracks & wear and
 Annex B BearPaw Allowable Damage Drawing (VNR106 page 2 of 2 or VNR 106S page 2 of 2)

Periodic Inspection Schedule

- The Helitowcart BearPaw shall be inspected every 500 flying hours or yearly whichever comes first.
- The Helitowcart BearPaw can be inspected concurrently with the helicopter landing gear inspection.
- Recommended tolerance for performance of inspection is +/- 10% of the 500 hours period.
- Following an inspection, subsequent interval shall be adjusted to meet the original schedule from time of inspection. If inspection is performed earlier than the 10% tolerance, then following inspections shall be scheduled not to exceed the above mentioned tolerance.

500 Hour or Yearly Inspection Details

- Remove Helitowcart BearPaw: See Section "BearPaw Removal".
- Inspect all parts for damage & wear. See table & figure below for allowable damage,
- · Replace all damaged parts,
- Replace parts worn beyond the tolerances indicated below.
- See Tolerances for cracks & wear:

Table 5 - Tolerances for cracks & wear, &

Annex B – BearPaw Allowable Damage Drawing (VNR106 page 2 of 2 or VNR 106S page 2 of 2)

Table 5 – Tolerances for Cracks & Wear

Zone	Nominal Dimension (Inches)	Allowable Damage/Wear (Inches)	Cracks
А	0,50	0,050	
В	1,000	0,250	

Page 6 of 16



С	0,375	0,075	Pockets: Cracks are acceptable in the Helitowcart BearPaw pocket areas to a maximum length of 0,5" provided they are 0,25" away from the stiffener radius change. Stop drill cracks with a 0,125" hole.
D	0,50	None	Stiffeners: NO cracks in stiffeners.
E	0,375	0,075	For P/N 112-0002-00-S Only

Overhaul Requirements

• Not applicable for the designated application of this device.

REVISIONS & APPROVAL

Revisions

Date	Rev	Nature of Revisions	
Nov 20,2006	А	Initial issue	
Jan 29, 2007	В	Minor editorials. Change to weight & Balance Data to reflect production model. Change in inspection schedule from 300 to 500 hours to match existing landing gear periodicity.	
Feb 28, 2008	С	Introduction of new streamline BearPaw Pad configuration as alternate.	
Aug 01, 2008	D	Modification of vent holes on the streamline pad	
April 8, 2010	E	Correction to CofG data	

Approval

Internal Approval:		
Helitowcart inc.	Lucia Barbeau	April 8, 2010 Date:
	Lucien Barbeau, President	
External Approval :		
Transport Canada	Miko Zgela, DAR #310	April 8, 2010 Date:



Annex A

See: BearPaw Assembly, drawing no. (112-0002-00) or; BearPaw Assembly, drawing no. (112-0002-00-S)

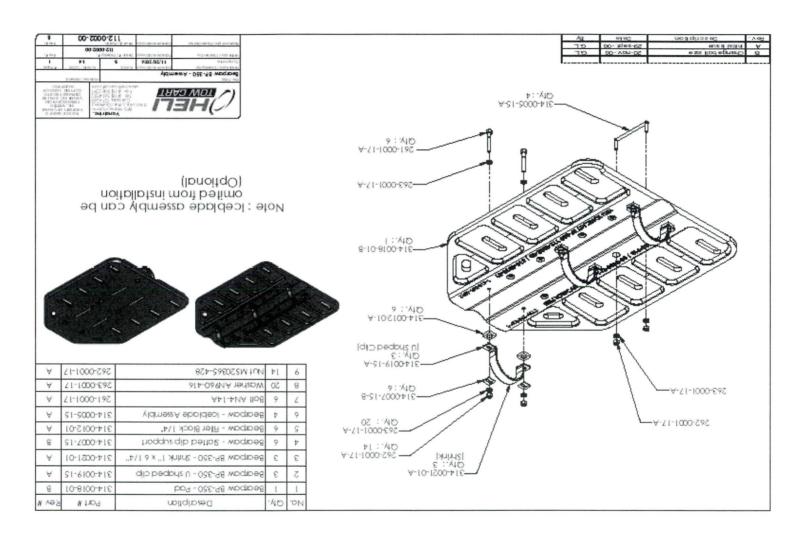
Annex B

See: BearPaw Pad, drawing no. VNR106. Page 2 of 2 or; BearPaw Pad, drawing no. VNR106-S. Page 2 of 2.



Annex A

BearPaw Assembly, Drawing no. VNR(112-0002-00). P/N 112-0002-00



Page 10 of 16

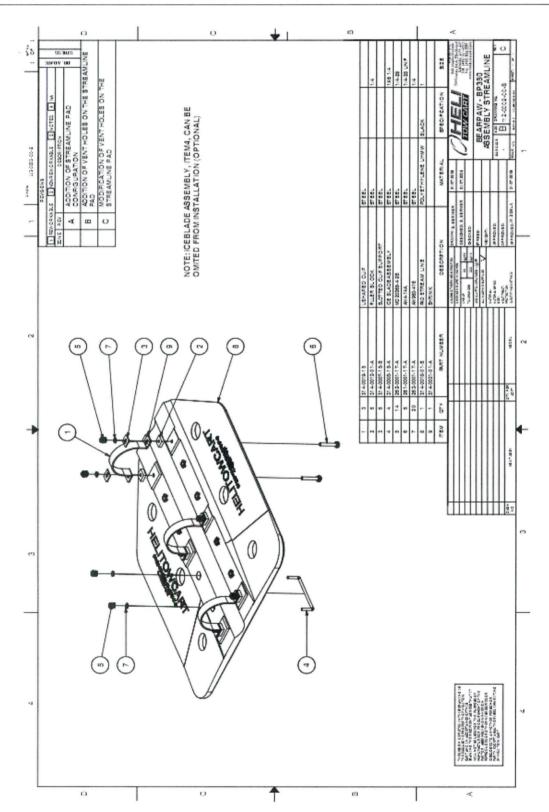




Annex A

BearPaw Assembly, Drawing no. VNR(112-0002-00-S). P/N 112-0002-00-S



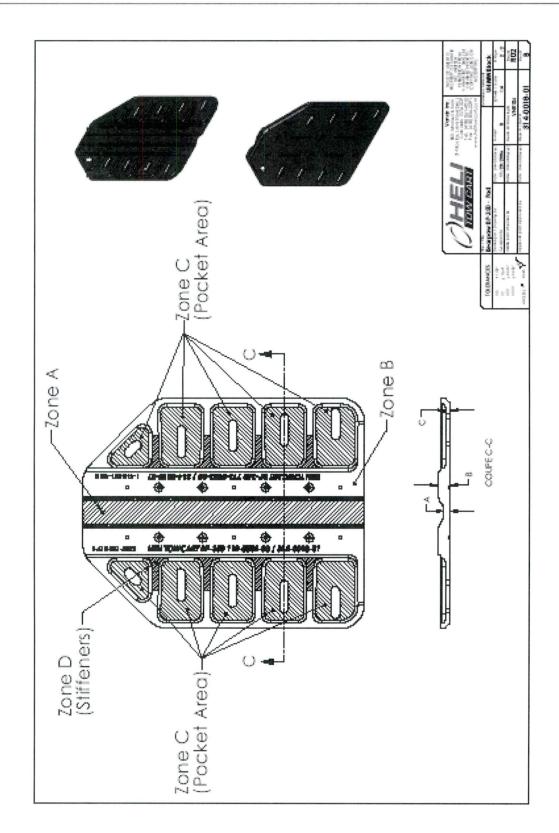




Annex B

BearPaw Pad, Drawing no. VNR106. Page 2 of 2. P/N 314-0018-01



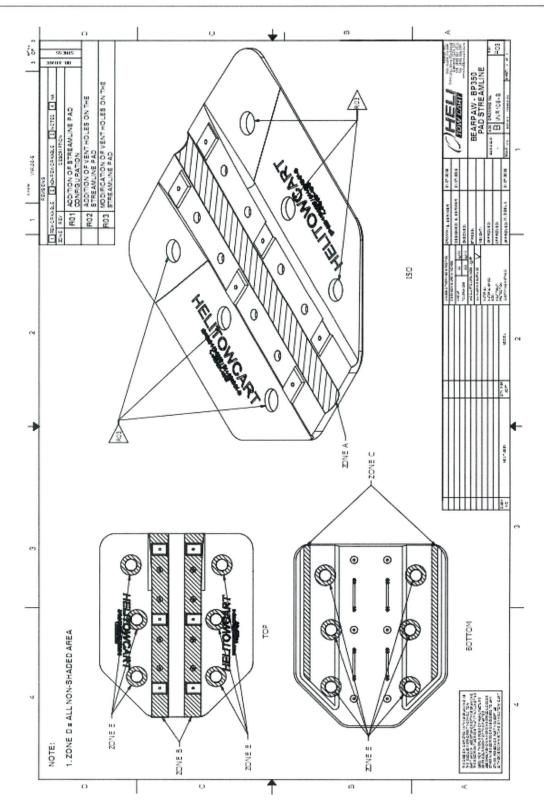




Annex B

BearPaw Pad, Drawing no. VNR106S. Page 2 of 2. P/N 314-0018-01-S







Engineering Order

Title: Repair of BearPaw BP350 for Installation	with Dart Wear Pads		
EO Number: HTC-EO-0709-003 Rev NC	Date issued: April 02, 2015		
Customer:	Project number: A2007-09		
BE	ARPAW INFORMAT	TION	
Part Number / Description: 314-0018-01-S / BP350 Pad Streamline	Drawing: 314-0018-01-S, Rev D, dated December 21, 2012		
Propagal by: Mechanical:	SIGNATURE Electrical:	Verified:	Approved:

ì	A215000000000000000000000000000000000000		SIGNATURE	发展。1000年度100年度100日	
	Prepared by:	Mechanical:	Electrical:	Verified:	Approved:
	Remond	Remarker		Affinie	Mt Jul
	R. Berthelot, Eng. (OIQ# 5033095) Aviatech (ATS)	R. Berthelot, Eng. (OIQ# 5033095) Aviatech (ATS)		J. T. M. emire, Eng. (OIO# 141774) Aviatech (ATS)	Mirko Zgela (DAR #310) Aviatech (ATS)

SCOPE:

Aviatech Technical Services (ATS) has been contracted by Helitowcart to develop a repair procedure that aims at removing interference between BearPaw BP350 and Dart wear pad bolt heads. This Engineering Order (EO) describes the step-by-step approach to perform this repair and evaluates structural compliance of the repaired BearPaw.

REFERENCES DOCUMENTS:

The following documents is needed to carry out the modification:

 314-0020-00-E, BearPaw Model BP350 – Installation Instruction – AS350/355 Series, Rev F, dated December 21, 2012.

GENERAL:

All steps in this procedure must be followed. Any deviations or enquiries related to the process are to be forwarded to Aviatech Technical Services at (819) 601-8049 for approval prior to performing the modification.

SAFETY:

The use of proper safety equipment and safe work environment is required at all time.

SPECIAL TOOLS:

- Dremel rotary tool
- Carbide end mill, 1/8" shank diameter, 1" length of cut, overall length 3" (P/N 3066A59 from Mc Master Carr or equivalent)



DESCRIPTION OF CHANGE:

When BearPaw BP350 is installed on a skid equipped with Dart wear pads, interference occurs between bolt heads and BearPaw (Figure 1). This can damage the BearPaw, as shown on Figure 2. Damages on this figure were obtained directly after first installation, without performing any landing.

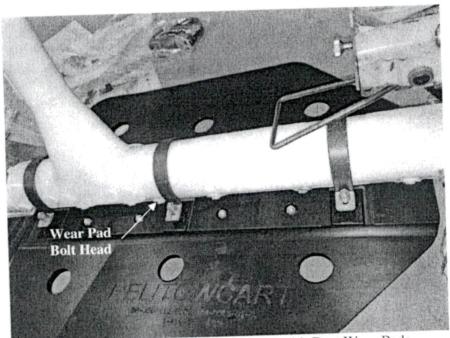


Figure 1 - BearPaw BP350 Installed with Dart Wear Pads

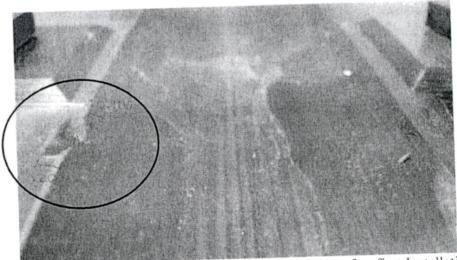


Figure 2 – Damages caused by Bolt Head Interference after first Installation



Repair consists in cutting small pockets in the BearPaw to clear the wear pad bolt heads (Figure 3).

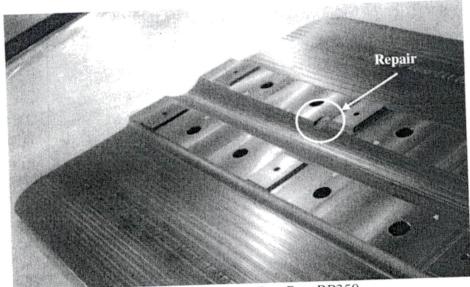


Figure 3 - Repair on BearPaw BP350

STRUCTURAL SUBSTANTIATION:

Structural substantiation of streamline BearPaw BP350 is performed in document HTC-MEM-0709-001 Rev A. Figure 4 is taken from this report and shows that equivalent stress is small in the region where the repair is performed since BearPaw thickness in this region is much larger than in the critical regions. Stress in this region for the repaired BearPaw will remain below stress in the critical region. Therefore, repair is structurally adequate.

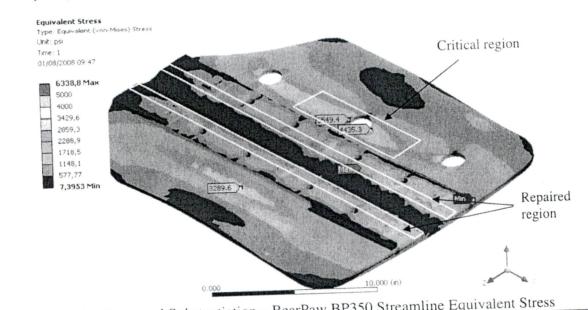


Figure 4 - Structural Substantiation - BearPaw BP350 Streamline Equivalent Stress



Step#	Description	Product / Tool	Sign /Date	
0.1	Initial Helicopter Preparation		Light (Mg	
1.1	Prior to equipment installation, ensure that the helicopter is safe for maintenance.			
2.0	BearPaw Removal			
2.1	Mark on BearPaws the locations of wear pad bolts that interfere with BearPaw or could eventually damage it.			
2.2	Remove BearPaws from helicopter skid as per installation instructions.			
3.0	BearPaw Repair	10000000000000000000000000000000000000	经现代的	
3.1	Remove all components from BearPaw pads.			
3.2	NOTE Only repair BearPaws at locations where damage occurred, or where damage could eventually occur. Reduce above dimensions as required, except radius.	Dremel End mill		



Description	Product / Tool	Sign /Date
Move <i>Dremel</i> laterally as shown on below picture. Do not move forward and aft of it would mark lines on the surface.		
Move Attachment head		
Recommended tool is a CNC like rotary tool (carbide end mill, 1/8" shank diameter, 1" length of cut, overall length 3"). The long length of cut is required in order to machine the surface laterally without moving the tool forward and aft. The long overall length is required to clear BearPaw surface with attachment head. The use of the following tools is NOT recommended for the repair since they were tested and melt BearPaw surface:		
Sanding rotary tool Drill bit used with rotary tool Half round wood file Ball nose end mill		
BearPaw Installation Install BearPaws on heliconter skid as per installation instructions.		
	NOTE Move Dremel laterally as shown on below picture. Do not move forward and aft of it would mark lines on the surface. NOTE Recommended tool is a CNC like rotary tool (carbide end mill, 1/8" shank diameter, 1" length of cut, overall length 3"). The long length of cut is required in order to machine the surface laterally without moving the tool forward and aft. The long overall length is required to clear BearPaw surface with attachment head. The use of the following tools is NOT recommended for the repair since they were tested and melt BearPaw surface: Sanding rotary tool Drill bit used with rotary tool Half round wood file Ball nose end mill	NOTE Move Dremel laterally as shown on below picture. Do not move forward and aft of it would mark lines on the surface. NOTE Recommended tool is a CNC like rotary tool (carbide end mill, 1/8" shank diameter, 1" length of cut, overall length 3"). The long length of cut is required in order to machine the surface laterally without moving the tool forward and aft. The long overall length is required to clear BearPaw surface with attachment head. The use of the following tools is NOT recommended for the repair since they were tested and melt BearPaw surface: Sanding rotary tool Drill bit used with rotary tool Half round wood file Ball nose end mill BearPaw Installation



Department of Transport

Supplemental Type Certificate

This approval is issued to:

Number: SH06-24

Helitowcart (Vanair Inc.)

877A, Alphonse-Desrochers

St-Nicholas, Lévis, Québec

Issue No.: 4

Approval Date:

August 17, 2006

Issue Date:

October 10, 2013

Canada G7A 5K6

Responsible Office:

Ouébec

Aircraft/Engine Type or Model:

See Continuation Sheet on Page 2 of 2

Canadian Type Certificate or Equivalent:

See Continuation Sheet on Page 2 of 2

Description of Type Design Change:

Installation of Helitowcart BearPaw

Installation/Operating Data,
Required Equipment and Limitations:

For the Robinson Models R44, R44 II and R66 Helicopters:

Installation of Helitowcart Bear Paw BP44 is to be performed in accordance with TC approved Helitowcart Master Document List Report: HTC-MDL-BP-R44-1000, Revision D dated August 28, 2013, or later Transport Canada approved revision.

The BearPaw must be installed in accordance with Helitowcart Document: 314-0011-00, BearPaw Model BP44, Installation Instructions – R44/R66, Revision E dated August 09, 2013 or later Transport Canada approved revision.

See Continuation Sheet Page 2 of 2



Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.

Jean Pierre Francoeur For Minister of Transport

Canadä



(Continuation Sheet)

Number: SH06-24 Issue 4

NOTE: THIS ADDENDUM SHALL REMAIN PART OF THE CERTIFICATE REFERRED TO THEREIN.

Installation/Operating Data,
Required Equipment and Limitations (Cont'd):

For the Eurocopter (formerly Aerospatiale) AS350 and AS355 Series Helicopters:

Installation of Helitowcart Bear Paw BP350 is to be performed in accordance with TC approved Helitowcart Master Document List Report: HTC-MDL-BP-AS350/355-1000, Revision F dated April 8, 2010, or later Transport Canada approved revision.

The BearPaw must be installed in accordance with Helitowcart Document: 314-0020-00-E, BearPaw Model BP350, Installation Instructions – AS350/355, Revision F dated December 21, 2012 or later Transport Canada approved revision.

For the Eurocopter EC 130 Helicopters:

Installation of Helitowcart Bear Paw BP130 is to be performed in accordance with TC approved Helitowcart Master Document List Report: HTC-MDL-BP-EC130-1000, Revision A dated May 13, 2011, or later Transport Canada approved revision.

The BearPaw must be installed in accordance with Helitowcart Document: 314-0031-00-A, BearPaw Model BP130, Installation Instructions – EC130, Revision A dated May 04, 2011 or later Transport Canada approved revision.

	Fleet Eligibility List			
Make	Model	Type Certificate Data Sheet		
Robinson	R44	H-97		
Robinson	R44 II	H-97		
Robinson	R66	H-111		
Eurocopter	AS 350 B	H-83		
Eurocopter	AS 350 B1	H-83		
Eurocopter	AS 350 B2	H-83		
Eurocopter	AS 350 B3	H-83		
Eurocopter	AS 350 BA	H-83		
Eurocopter	AS 350 D	H-83		
Eurocopter	EC 130 B4	H-83		
Eurocopter	AS 355 E	H-87		
Eurocopter	AS 355 F	H-87		
Eurocopter	AS 355 F1	H-87		
Eurocopter	AS 355 F2	H-87		
Eurocopter	AS 355 N	H-87		

Bepartment of Transportation -- Federal Abiation Administration

Supplemental Type Certificate

Number SR02432NY

This certificate issued to

Helitowcart (Vanair Inc.) 877A, Alphonse-Desrochers Saint-Nicholas, Lévis, Québec Canada G7A 5K6

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of * of the * Regulations.

Original Product - Type Certificate Number: *

Make:

. Wodel: *

* See attached FAA Approved Model List (AML) No. SR02432NY for the list of approved aircraft models, applicable airworthiness regulations, and required documents.

Description of Type Design Change:

- Installation of Helitowcart Bear Paw Models BP350, BP44 or BP130 in accordance with Helitowcart Master Document Lists as specified in AML SR02432NY.
- 2. Instructions for Continued Airworthiness documents as specified in AML SR02432NY are required with this installation.

Limitations and Conditions:

- A copy of this certificate and FAA AML No. SR02432NY must be maintained as part of the permanent records of this
 modified aircraft.
- 2. The Installer must determine whether this design change is compatible with previously approved modifications.
- If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration

Late of application: March 26, 2007

Date reissued:

Date of issuance:

July 20, 2007

Late amended: January 14, 2013, June 3, 2014

TOMINISTRATION

By direction of the Administrator

Gaetano Sciortino

Manager, New York Aircraft Certification Office

(Title)

FAA APPROVED MODEL LIST (AML) NO. SR02432NY HELITOWCART (VANAIR, INC.) FOR INSTALLATION OF BEAR PAWS

Original Issue Date: July 20, 2007 Amended Date: June 3, 2014

PART	REGULATION	MAKE	MODEL	TCDS	RI	EQUIRED DOCUMENTATION		AML
					MASTER DOCUMENT LIST	INSTALLATION INSTRUCTIONS	INSTRUCTIONS for CONTINUED AIRWORTHINESS	AMENDMENT DATE
27	Federal Aviation	Airbus Helicopters	AS350B, B1, B2, B3, BA, D, D1	H9EU	Helitowcart Inc. Master Document List, Report no. HTC-MDL-BP- AS350/355-1000 Rev. G, approved on December 21, 2012 or later Transport Canada approved revision.	Helitowcart Inc. Installation Instructions - AS350/355, Bear Paw Model BP350, document no. 314-0020-00-E, Rev. F, approved on December 21, 2012 or later Transport Canada approved revision.	Contained within Installation Instructions, page 8 of document no. 314- 0200-00-E, Revision F.	June 3, 2014
27	Federal Aviation	Airbus Helicopters	EC 130B4	H9EU	Helitowcart Inc. Master Document List, Report no. HTC-MDL-BP- EC130-1000 Rev A, approved on May 13, 2011 or later Transport Canada approved revision.	Helitowcart Inc. Installation Instructions – EC130, Bear Paw Model BP130, document no. 314- 0031-00-A, Rev. A, approved May 4, 2011 or later Transport Canada approved revision	Contained within Installation Instructions, page 6 of document no. 314- 0031-00-A, Revision A.	June 3, 2014
27	Federal Aviation	Airbus Helicopters	AS355E, F, F1, F2, N	H11EU	Helitowcart Inc. Master Document List, Report no. HTC-MDL-BP- AS350/355-1000 Rev. G, approved on December 21, 2012 or later Transport Canada approved revision.	Helitowcart Inc. Installation Instructions - AS350/355, Bear Paw Model BP350, document no. 314-0020-00-E, Rev. F, approved on December 21, 2012 or later Transport Canada approved revision.	Contained within Installation Instructions, page 8 of document no. 314- 0200-00-E, Revision F.	June 3, 2014
27	Federal Aviation	Robinson Helicopter Company	R44, R44 II	HIINM	Helitowcart Inc. Master Document List, Report no. HTC-MDL-BP- R44-1000 Rev. D, approved on August 28, 2013 or later Transport Canada approved revision.	Helitowcart Inc. Installation Instructions - R44/R66, Bear Paw Model BP44, document no. 314-0011-00, Rev. E, approved on August 9, 2013 or later Transport Canada approved revision.	Contained within Installation Instructions, page 6 of document no. 314- 0011-00, Rev. E.	June 3, 2014

FAA APPROVED MODEL LIST (AML) NO. SR02432NY **HELITOWCART (VANAIR, INC.)** FOR INSTALLATION OF BEAR PAWS

Original Issue Date: July 20, 2007 Amended Date: June 3, 2014

PART	REGULATION	MAKE	MODEL	TCDS	RE	REQUIRED DOCUMENTATION								
					MASTER DOCUMENT LIST	INSTALLATION	INSTRUCTIONS for	AMENDMENT						
						INSTRUCTIONS	CONTINUED	DATE						
							AIRWORTHINESS							
27	Federal Aviation	Robinson	R66	R00015LA	Helitowcart Inc. Master Document	Helitowcart Inc. Installation	Contained within	June 3, 2014						
		Helicopter			List, Report no. HTC-MDL-BP-	Instructions - R44/R66, Bear	Installation Instructions,							
		Company	3		R44-1000 Rev. D, approved on	Paw Model BP44, document	page 6 of document no. 314-							
					August 28, 2013 or later Transport	no. 314-0011-00, Rev. E,	0011-00, Rev. E.							
					Canada approved revision.	approved on August 9, 2013								
	2					or later Transport Canada								
						approved revision.								

FAA Approved:

Gaetano Sciortino Manager, New York Aircraft Certification Office

Helitowcart - NON CONFORMITY report	F80-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Product / Output:	NCR: 2017.06.01. nb-101
BP350 - DOCUMENTS	yyyy-mm-dd-initials-#
Product no: (12-0002-00-5- new C	ASS no:
Non conformities: 2 DOC FOUND TO BE PREVIOUS	CARPAR no:
WERSION: rev. F - 3 G	BATCH: HTC-LNF-141114-
INSTALL INSTR 314802000E -> F	Supplier: -
	Supplier ref no:
NOTE: SiNES NE OCCURRED IN 2014 2 WA	H.
FOUND IN 2017 WITH ONCY 2 KITS LEFT IN STOCK. NATURE OF CHANGES HAS NO IMPACT ODS	1 1
Initiated by: N. Baleau Date: 2017 0601	Quantity in the lot: 90

Section B - Prescribed disposition Repair Wait Decision & notes: · REPGACE DOCS IN 2 BOX 18 Use as is Discard Derogation · LELVE THOSE IN MARKET AS IS Return to (=use as is with supplier AS COSTOMERS ALREADY CONTACT & FOR UPDATES or without repair) Verified by Resp Actions 1- REPLACE DOCS IN BOX # 4 & # 15 IN STOPH 2- ABD NOTE & CORRECT VERSON TO DELEUSE INSP. RECORDS. Date: 2017 06 01 Prescribed by: N. Backeau

Decision & notes:

Since THE CONTACT NATURE OF CHANGES BETWEEN THE 2

VERSIONS HAS NO IMPACT ON USE, EFFICIENCY 2

VERSIONS HAS NOR CAN BE CLOSED WITHOUT BUNGHER ALTION

Closed by: N. Barleau Date: 2017-06-01

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Traceability data

Qty	Part No.	Desc:	Lot number
29	112 0002 00 S-D	STREAMLINED	HTC-LNF- /3 0 2 0 2 - 0 / HTC-LNF-yymmdd-seq
Include	S:	% 0,	
	SEE ATTACHE	DEXCEL CHAM.	LN-
			LN- AUDIT TE 2013
			LN-
			LN-
			LN-
		1. 5	LN-
		PR	LN-

Inspection Plan

Aspect	Sampling	Inspection	Acceptance parameters
A	100%	PRESENCE OF ICEBCADES IN	LAGS
В	100%.	11 " DOCUMENTS	IN BAGS
С	100%	ALL LN MATCH PARTS FOR L	
D	100%	" COMPONENTS INTU	
E	100%	BOX APPROPRIATELY IDENTI	
Inspection	on Plan approve		Date: 2013 02 02

Inspection Records

Ok = T + initials

Date: 2013 02 02	Quantity	Α	В	С	D	E	Notes
2013 0202	29 Pairs	SER DE	on ob	SK B	Se of	LO DR	

_			10.000	
R	0	ease	certificates	issue

TOTAL CONTINUENCE TO TOTAL CON						
Release Certificates issued: yes	no	By:	N	Date	Date: 2013	02 02
Comments:					<i>3</i> 0()	

HTC-LDF-130202-01à 29

HTC-RC-1	30202	-01	(a)																								
1 2 3 4	5 6 7	8 9	10 1	1 12	13	4 15	16	17	18 1	9 20	0 21	22	23 2	4 2	5 26	26	28	29	HTC-LNF-130202-0	<u>1</u>	Qté par paire	Nb paires req	Qté totale pièces	•	Oti	Let 2	0.5
				1.2			10	· ·		-	-			-	-	-	20			- 1714	pano	109	picce	LOT 1	Qty	Lot 2	Qty
Pads							T		\top	+	+			†	+								-		+		+
L1 L1 L1 L1 L	1 L1 L1	L1 L1	L1 L	1 L1	L1 l	.1 L1	L1	L1	L1 L	1 L	1 L1	L1	L1 L	1 L	1 L1	L1	L1	L1	Bp pads STREAMLIN	E 314 0018 01 C	2	29	58	LN-121212-01	+		+-
Iceblade Assy	(***not i	nstalle	d, si	nply	inse	rted	part	s in	to ba	ag)															+		-
L1 L1 L1 L1 L1	1 L1 L1	L1 L1	L1 L	1 L1	L1 L	.1 L1	L1	L1	L1 L	1 L	1 L1	L1	L1 L	1 L	1 L1	L1	L1	L1	Iceblade Assy	263 0005 15 C	8	29	232	LN-121127-01	1		1
L1 L1 L1 L1 L1	1 L1 L1	L1 L1	L1 L	1 L1	L1 L	.1 L1	L1	L1	L1 L	1 L	1 L1	L1	L1 L	1 L	1 L1	L1	L1	L1	Nuts	262 0001 17 A	16	29	464	API - MS21044N4 1 Lot 77347			
L1 L1 L1 L1 L1	1 L1 L1	L1 L1	L1 L	1 L1	L1 L	.1 L1	L1	L1	L1 L	1 L	1 L1	L1	L1 L	1 L	1 L1	L1	L1	L1	Washers	263 0001 17 A	16	29		API- NAS1149F0463P- lot 86876	_		+
Bags with part	s for cu	stome	ass	of F	ront	U-c	ips																		_		
																			U-shaped Clips	314 0019 15 B	6	29	174	LN-121127-05			
L1 L1 L1 L1 L1	1 L1 L1	L1 L1	L1 L	1 L1	L1 L	1 L1	L1	L1	_1 L	1 L	1 L1	L1	L1 L	1 L1	1 L1	L1	L1	L1	Slotted clip Supports	314 0007 15 B	12	29	348	LN-121127-02			_
L1 L1 L1 L1 L1	1 L1 L1	L1 L1	L1 L	1 L1	L1 L	1 L1	L1	L1	_1 L	1 L	1 L1	L1	L1 L	1 L1	1 L2	L2	L2	L2	Bolts AN4-14A	261 0001 17 A	12	29	348	API-AN4-14A / Lot 85681	300	Aircraft Spruce lot 74944/14597	48
L1 L1 L1 L1 L1	1 L1 L1	L1 L1	L1 L	1 L1	L1 L	1 L1	L1	L1	_1 L	1 L1	1 L1	L1	_1 L	1 L1	L1	L1	L1	L1	Nuts	262 0001 17 A	12	29	348	API - MS21044N4 1 Lot 77347		,	
L1 L1 L1 L1 L1																				263 0001 17 A	24	29	696	API- NAS1149F0463P- lot 86876	1		_
L1 L1 L1 L1 L1	1 L1 L1	L1 L1	L1 L	1 L1	L1 L	1 L1	L1	L1	_1 L	1 L1	1 L1	L1	_1 L	1 L1	L1	L1	L1	L1	Filler blocks 1/4"	314 0012 02 A	12	29		LN-121221-01	_		_

2013 02 02.



Master Document List

Helitowcart

Eurocopter Model AS 350/355 Series Helicopters Installation of BearPaw Model BP350

Report: HTC-MDL-BP-AS350/355-1000 (Rev G)

APPROVED BY:

DATE: DECEMBER 21,2012

Mirko Zgela

Design Approval Representative DAR #310

Revision	Revision Date	Revision of Entry	. Entered by			
Α	Nov 22, 2006	Initial issue	N/A 🏣			
В	Jan 28, 2007	Revision performed to the Installation Instructions (Doc # HTC-314-0020-00)	M.Z.			
С	Feb 28, 2007	Addition of streamline pad configuration. Revision performed to the Installation Instructions (Doc # HTC-314-0020-00)	M.Z.			
D	July 27, 2008	Addition of vents holes in the streamline pad.	M.Z.			
E	Aug 01, 2008	Modification of vents holes in the streamline pad.	M.Z.			
F	April 8, 2010	Revision performed to the Installation Instructions (Doc # HTC-314-0020-00)	M.Z.			
G	December 21, 2012	Updated Tolerance data regarding Pad and Updated referenced document identification and revisions	M.Z.			



1.0 MASTER DOCUMENTS

Document #	Title		Approval by	Date
AAC-CPL-BP-AS350/355- 1000	Compliance Plan – Eurocopter Model AS350/355 Series Helicopters – Installation of BearPaw Model BP350	NC	DAR 310	Nov 22, 2006
HTC-314-0020- <mark>00-E</mark>	BearPaw Model BP350 – Installation Instruction – AS350/355 Series Helicopters	F	DAR 310	Dec 21, 2012
AAC-STR-BP-AS350/355- 1000	Structural Substantiation – Helitowcart Inc. BearPaw Model BP350	NC	DAR 310	Nov 20, 2006
AAC-FTR-C-GZNC	Simple External Modification – Applicant's Flight Test Plan/Report	NC	DAR 310	Nov 21, 2006
HTS-EO-0709-002	Bear Paw Model BP350 Vent Holes	Α	DAR 310	July 31, 2008
HTC-MEM-0709-001	Memorandum – Vent Hole BP350 BearPaw	Α	DAR 310	July 31, 2008

2.0 MASTER DRAWINGS

Drawings #	Title	Revision Status	Approval by	Date
112-0002-00	BearPaw BP350 - Assembly	В	DAR 310	Nov 20, 2006
112-0002-00 <mark>-S</mark>	BearPaw BP350 – Assembly Streamline	D	DAR 310	Dec 21, 2012
314-0002-15 (VNR084)	BearPaw – Iceblade	A (R01)	DAR 310	Apr 24, 2006
314-0004-15 (VNR085)	BearPaw – Iceblade Threaded Rod	A (R01)	DAR 310	Apr 24, 2006
314-0005-15 (VNR086)	BearPaw - Iceblade Assembly	A (R01)	DAR 310	Apr 24, 2006
314-0007-15 (VNR089)	Bearpaw - Slotted Clip Support	B (R04)	DAR 310	July 31, 2006
314-0012-01 (VNR099)	Filler Block 1/4"	A (R01)	DAR 310	Aug 8, 2006
314-0018-01 (VNR106)	BearPaw BP350 - Pad	B (R02)	DAR 310	Sept 26, 2006
314-0018-01-S (VNR106-S)	BearPaw BP350 – Pad Streamline	D	DAR 310	Dec 21, 2012
314-0019-15 (VNR107)	BearPaw BP350 – U Shaped Clip	A (R01)	DAR 310	Sept 29, 2006



3.0 REFERENCE DOCUMENTS

Document #	Title	Revision Status	Approval by	Date
314-0009-01	Ultra High Molecular Weight Polyethylene – Typical Properties	А	N/A	May 24, 2006
314-0008-01	Material Properties - UHMW TIVAR	А	N/A	May 24, 2006
314-0017-05	Heat Shrink Specifications	Α	N/A	Sept 6, 2006





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INSTALLATION BearPaw Installation BearPaw Removal Weight & Balance Parts List	p.4p.6p.6p.7
INSPECTION Life Limited Items Pre-Flight Periodic Inspection Schedule 500 Hour or Yearly Inspection Details Overhaul Requirements	p.8 p.8 p.8 p.8 p.8 p.9
REVISIONS & APPROVAL	p.10

Annex A (BearPaw Assembly Drawing)
Annex B (BearPaw Pad Drawing)

INTRODUCTION

Scope

This installation instruction describes the step-by-step approach to install and to perform maintenance of the Helitowcart BearPaw Model BP 350 (P/N 112-0002-00 or P/N 112-0002-00-S) for the AS 350 and AS 355 series helicopters.

General

The Helitowcart BearPaw is made of machined UHMW TIVAR® polymer sheet. This material combines high-impact performance, low friction and good resistance to chemical. Its high durability will provide superior performance when installed on your helicopter. Any question regarding the Helitowcart BearPaw system shall be directed to Helitowcart Customer Support as indicated in Table (1):

Table 1 - Helitowcart Customer Support

Care of	Mailing Address	Phone, Fax & Email:
Customer Support	860 Marie-Victorin	Tel:1 (418) 561-4512
Helitowcart BearPaw	St-Nicholas, Levis, Quebec,	Fax:1 (418) 836-4575
Helitowcart (Vanair inc)	Canada, G7A 3S9	info@helitowcart.com

Helicopter Effectivity

This installation instruction applies to the following helicopter models:

Table 2 - Helicopter Model Effectivity

Make	Model	Transport Canada Type Certificate Data Sheet
Eurocopter	AS 350 D	
Eurocopter	AS 350 D1	
Eurocopter	AS 350 B	
Eurocopter	AS 350 B1	H-83
Eurocopter	AS 350 B2	
Eurocopter	AS 350 B3	
Eurocopter	AS 350 BA	
Eurocopter	AS 355 E	
Eurocopter	AS 355 F	
Eurocopter	AS 355 F1	H-87
Eurocopter	AS 355 F2	
Eurocopter	AS 355 N	

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Installer Responsibilities

The installer shall ensure that the installation of the Helitowcart BearPaw does not conflict with any other part of the helicopter configuration. Technicians performing this installation should be familiar with A/C work and should have been familiarized with the different Helitowcart BearPaw system components prior to performing a first time installation. All steps in this procedure must be followed. Deviations from the procedures may result in potential structural failure or equipment malfunction and will result in a non-compliant installation.

INSTALLATION

BearPaw Installation

Reference Documentation:

[1] Helicopter Maintenance Manual AS 350 or AS 355 as applicable.

Step 1: Helicopter Preparation

- · Ensure the helicopter is safe for maintenance;
- Lift the helicopter using the manufacturer recommended practice provided in Ref [1] as applicable to your helicopter model to allow a ground clearance of the skid in the area of the aft cross tube of approximately 1 ½" (38mm);

Note: The BearPaw Model BP350 (P/N 112-0002-00 or P/N 112-0002-00-S) can be installed with or without the skid tube wear shoes.

Step 2: IceBlade Installation

Note: The BearPaw Model BP350 (P/N 112-0002-00 or P/N 112-0002-00-S) can be installed with or without the IceBlades

- · With IceBlade Option
- Install ice blades (Qty: 4) (Iceblades P/N 314-0005-15) under BearPaw pad as per drawing (112-0002-00 or 112-0002-00-S) provided at Annex A.
- Secure ice blades with washer (Washer P/N 263-0001-17) and nut (P/N 262-0001-17).

Step 3: BearPaw Installation

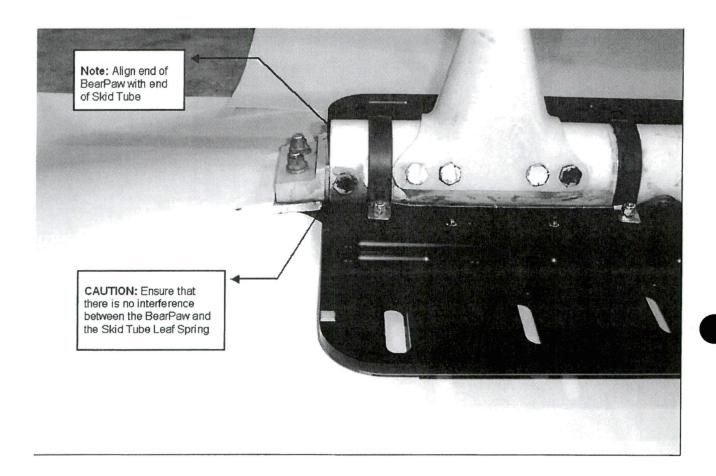
- Position the BearPaw under the skid as shown in Figure 1 with narrow edge pointing forward.
- Insert washers (P/N 263-0001-17) through all six bolts: 6x(261-0001-17);
- Insert bolts (P/N 261-0001-17) and washer (Washer P/N 263-0001-17) through BearPaw pad as per drawing (112-0002-00 or 112-0002-00-S) provided at Annex A;
- Insert filler blocks (P/N314-0012-01) as per drawing (112-0002-00 or 112-0002-00-S) provided at Annex A;

Note: The use of filler blocks (P/N314-0012-01) may be replaced or complemented by the use of washers (P/N 263-0001-17) to fill in the gap. Bolts (P/N 261-0001-17) may be replaced by longer or shorter AN4 bolts as required.

- Insert both U-shaped clips (P/N 314-0019-15) through bolts: 6x(261-0001-17);
- Insert slotted clip supports (P/N 314-0007-15) through all six bolts. Position slotted clip supports with rounded edge toward helicopter skid;
- Insert washer (P/N 263-0001-17) & screw nuts (P/N 262-0001-17) for a tight fit. Max. torque on nuts 60 in.-lb;
- · Remove helicopter from lift;
- Amend Weight & Balance records as required using data provided in Table 3.



Figure 1 - BearPaw Model BP350 (P/N 112-0002-00 or P/N 112-0002-00-S) - Alignment on Skid





BearPaw Removal

Step 1: Helicopter Preparation

- · Ensure the helicopter is safe for maintenance;
- Lift the helicopter using the manufacturer recommended practice provided in Ref [1] to allow a clearance of the skid in the area of the aft cross tube of approximately 1 ½" (38mm);

Step 2: BearPaw Removal

- Remove nuts (P/N 262-0001-17), slotted clip support (P/N 314-0007-15) on U-shaped clips (P/N 314-0019-15).
- Remove washers (P/N 263-0001-17), U-shaped clips (P/N 314-0019-15), filler blocks (P/N314-0012-01), and remove BearPaw pad (P/N 314-0018-01) or (P/N 314-0018-01-S Streamline);
- Inspect skid tubes to confirm serviceability
- If the skid tube shoes have been removed, re-install shoes as per reference [1];
- Complete installation by putting helicopter back to normal position by removing lift status;
- Amend Weight & Balance records as required using data provided in Table 3.

Weight & Balance

The following information should be used to amend the helicopter weight and balance information following the installation or removal:

Table 3 - Weight & Balance Data

Item	Weight	Lat	eral	Longitudinal	
iteiii	Arm		Moment	Arm	Moment
Helitowcart BearPaw Model BP350 (P/N 112-0002-00)	19,9 Lb 9,0 Kg	N/A	N/A	159,4 in. 404.9 cm	3172.0 in-lb 36.44 m-kg
Helitowcart BearPaw Model BP350 - <u>Streamline</u> (P/N 112-0002-00-S)	18,3 Lb 8,5 Kg	N/A	N/A	159,4 in. 404.9 cm	2917.0 in-lb 34.41 m-kg

Note: Weight and moment provided are for full kit installation.



Parts Lists

The Helitowcart BearPaw detailed parts list is as follow:

Table 4 - Parts List

		·	
Description	Qty	Part / Dwg No.	Additional Drawing Reference No./ Name
BearPaw Model BP350	1	112-0002-00	112-0002-00 / BearPaw Assembly, or 112-0002-00-S /Bear Paw Streamline Assembly
BearPaw pad (1)	1	314-0018-01	BearPaw BP350 - Pad (VNR106)
BearPaw pad streamline (1)	1	314-0018-01S	BearPaw BP350 – Pad Streamline (VNR106-S)
U Shaped Clips	3	314-0019-15	BearPaw BP350 - U Shaped Clips (VNR107)
Slotted Clip Support	6	314-0007-15	BearPaw - Slotted Clip Support (VNR089)
Filler blocks 1/4"	6	314-0012-01	BearPaw – Filler block ¼" (VNR099)
Bolts	6	261-0001-17	Bolt- AN4-14
Nuts	6	262-0001-17	Nut- MS20365-428
Washers	12	263-0001-17	Washer - AN960-416
Shrink	3	314-0021-01	BearPaw - Shrink Specifications & Install.(1"x6.25")
IceBlade Option Model OIB	4	314-0005-15	IceBlade Assembly (VNR086)
Nuts	8	262-0001-17	Nut- MS20365-428
Washers	8	263-0001-17	Washer – AN960-416

Note (1): Use pocked shaped BearPaw Pad P/N 314-0018-01 for assembly P/N 112-0002-00. Use streamlined Pad P/N 314-0018-01-S for assembly P/N 112-0002-00-S as applicable.



INSPECTION

Life Limited Items

Three are no life limited items for the Helitowcart BearPaw.

Pre-Flight

Before each flight the following items should be inspected:

- Check that attachment bolts are installed and secured.
- · Check that BearPaws are free from visible damage,
- If damage is found, verify allowable damage according to:
 Tables 5 & 6 Tolerances for cracks & wear and
 Annex B BearPaw Allowable Damage Drawing 314-0018-01 (VNR-106) page 2 of 2 for Pocket pad or 314-0018-01-S (VNR106-S) page 3 of 3 for Streamlined Pad.

Periodic Inspection Schedule

- The Helitowcart BearPaw shall be inspected every 500 flying hours or yearly whichever comes first.
- The Helitowcart BearPaw can be inspected concurrently with the helicopter landing gear inspection.
- Recommended tolerance for performance of inspection is +/- 10% of the 500 hours period.
- Following an inspection, subsequent interval shall be adjusted to meet the original schedule from time
 of inspection. If inspection is performed earlier than the 10% tolerance, then following inspections
 shall be scheduled not to exceed the above mentioned tolerance.

500 Hour or Yearly Inspection Details

- Remove Helitowcart BearPaw: See Section "BearPaw Removal".
- Inspect all parts for damage & wear. See table & figure below for allowable damage.
- Replace all damaged parts,
- · Replace parts worn beyond the tolerances indicated below.
- See Tolerances for cracks & wear:
 Tables 5 & 6 Tolerances for cracks & wear and
 Annex B BearPaw Allowable Damage Drawing 314-0018-01 (VNR-106) page 2 of 2 for Pocket pad or 314-0018-01-S (VNR106-S) page 3 of 3 for Streamlined Pad.



Table 5 - Tolerances for Cracks & Wear / Pocket Pad 314-0018-01 (VNR 106)

Zone	Nominal Dimension (Inches)	Allowable Damage/Wear (Inches)	Cracks
А	0,50	0,050	
В	1,000	0,250	
С	0,375	0,075	Pockets: Cracks are acceptable in the Helitowcart BearPaw pocket areas to a maximum length of 0,5" provided they are 0,25" away from the stiffener radius change. Stop drill cracks with a 0,125" hole.
D	0,50	0,050	Stiffeners: NO cracks in stiffeners.

Table 6 - Tolerances for Cracks & Wear / Streamline Pad 314-0018-01-S (VNR 106-S)

Zone	Nominal Dimension (Inches)	Allowable Damage/Wear (Inches)	Cracks
А	0,50	0,050	
В	1,000; and 0.88	0,250	
С	0.273 to 0,348 (variable thickness)	0,075	Pockets: Cracks are acceptable in the pocket under the Helitowcart BearPaw to a maximum length of 0,5". Stop drill cracks with a 0,125" hole.
D	0,49 (thickness after radius)	0,075	No cracks in the radius
E	0,38	0,075	No cracks in the BearPaw contour

Overhaul Requirements

• Not applicable for the designated application of this device.

REVISIONS & APPROVAL

Revisions

Date	Rev	Nature of Revisions	
Nov 20,2006	А	Initial issue	
Jan 29, 2007	В	Minor editorials. Change to weight & Balance Data to reflect production model. Change in inspection schedule from 300 to 500 hours to match existing landing gear periodicity.	
Feb 28, 2008	С	Introduction of new streamline BearPaw Pad configuration as alternate.	
Aug 01, 2008	D	Modification of vent holes on the streamline pad	
April 8, 2010	E	Correction to C of G data	
December 21, 2012	F	Updated Pad Tolerances and Document identifications . Improved page set up for reader convenience.	

Approval

Internal Approval :	A STATE OF THE STA	
Helitowcart inc.	Lucia Barteau	Date: Dec 21, 2012
	Lucien Barbeau, President	
External Approval :		
Transport Canada	Mirko Zgela, DAR #210	Date: Dec 21, 2012

Annex A

See: BearPaw Assembly, drawing no. (112-0002-00) for Pocket style pad or; BearPaw Assembly, drawing no. (112-0002-00-S) for Streamline style pad

Annex B

See: BearPaw Pad, drawing no. 314-0018-01 (VNR106) page 2 of 2 for Pocket style pad or; BearPaw Pad, drawing no. 314-0018-01-S (VNR106-S) page 3 of 3 for Streamline style pad.



Annex ABearPaw Assembly, Drawing no. 112-0002-00.

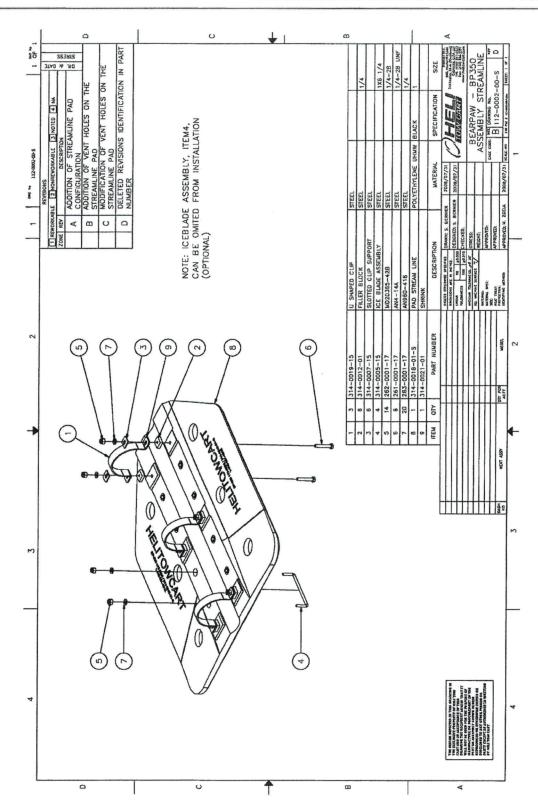
Page 12 of 18



Annex A

BearPaw Assembly, Drawing no. P/N 112-0002-00-S.





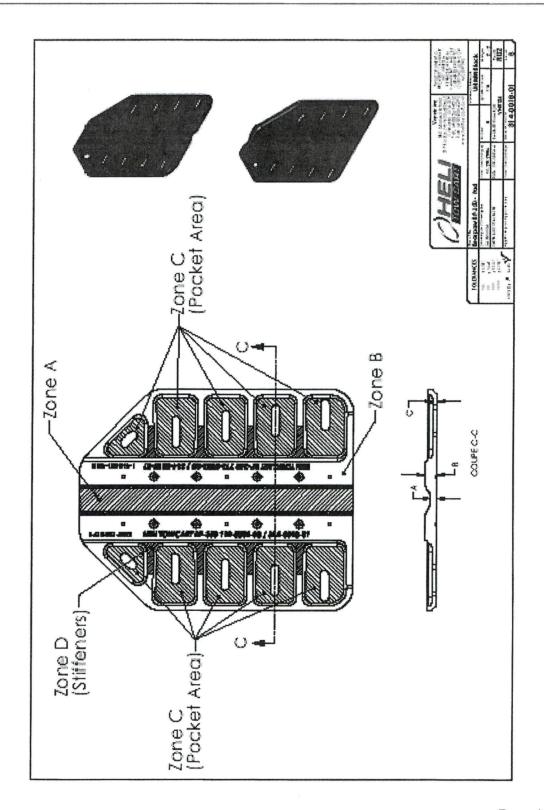
Page 14 of 18



Annex B

BearPaw Pad, Drawing no. 314-0018-01 (VNR106) Page 2 of 2 Pocket Style Pad.



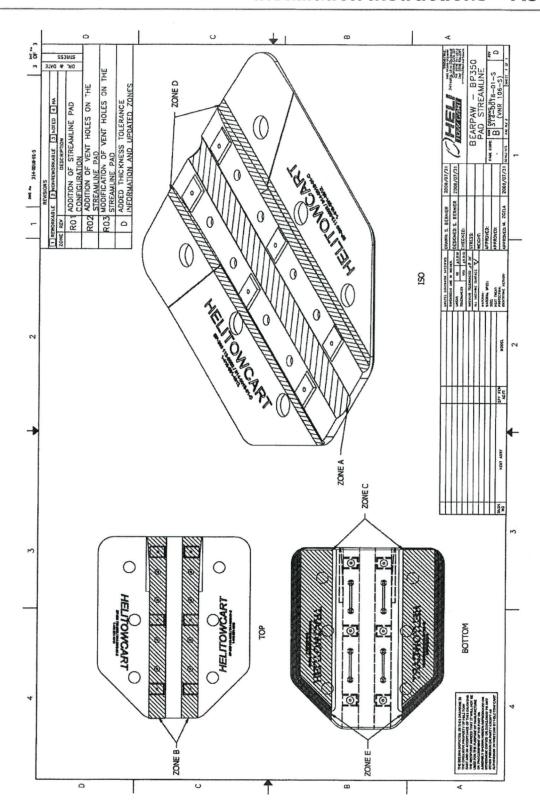




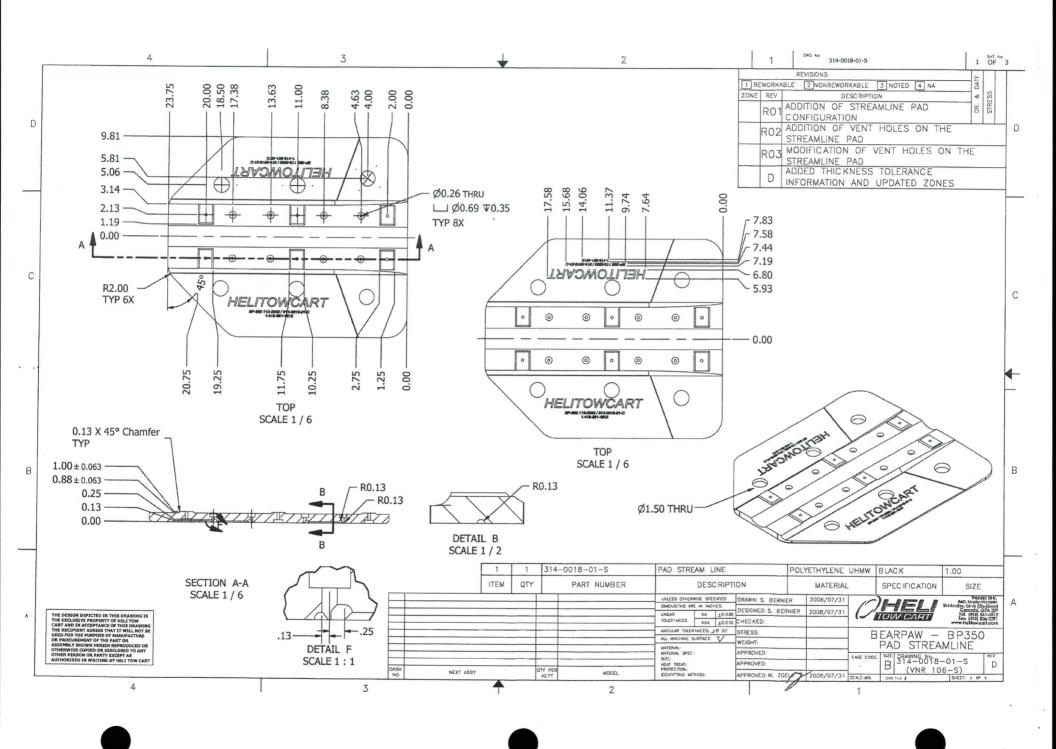
Annex B

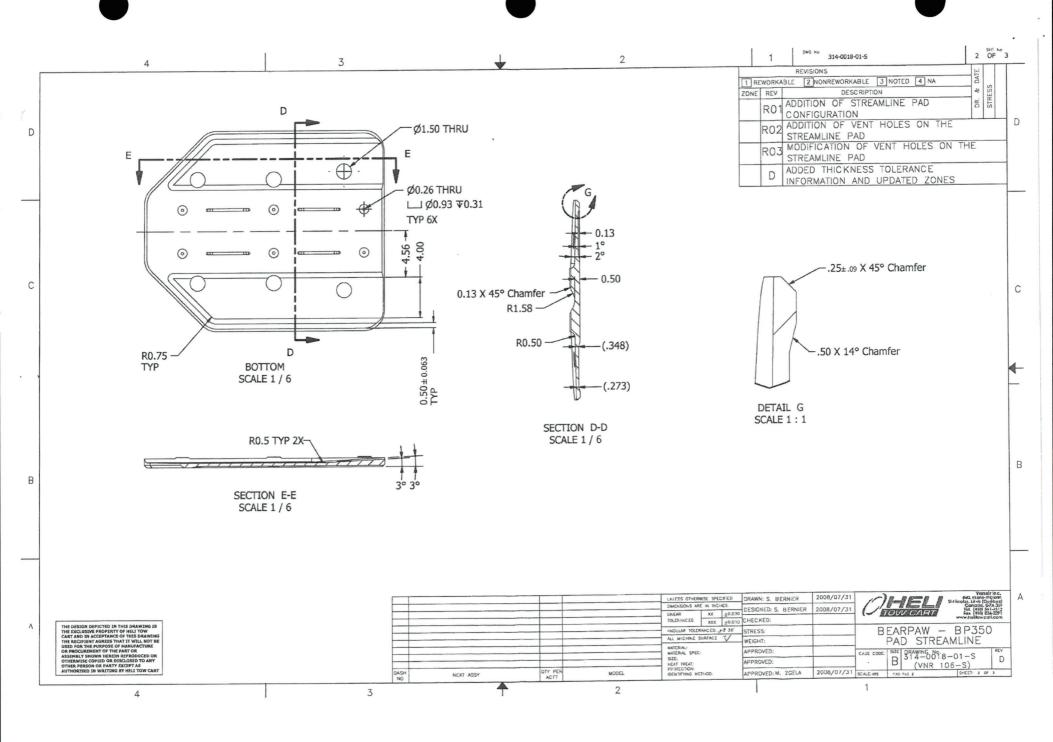
BearPaw Pad, Drawing no. 314-0018-01-S (VNR106-S) Page 3 of 3 Streamline Style Pad.

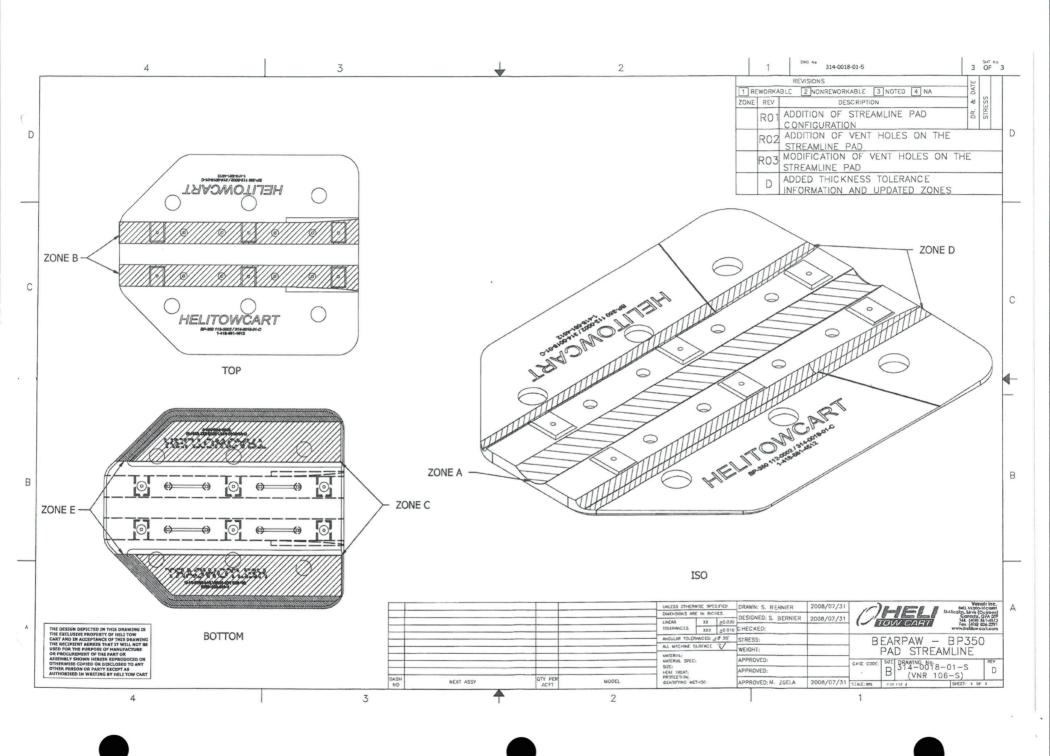


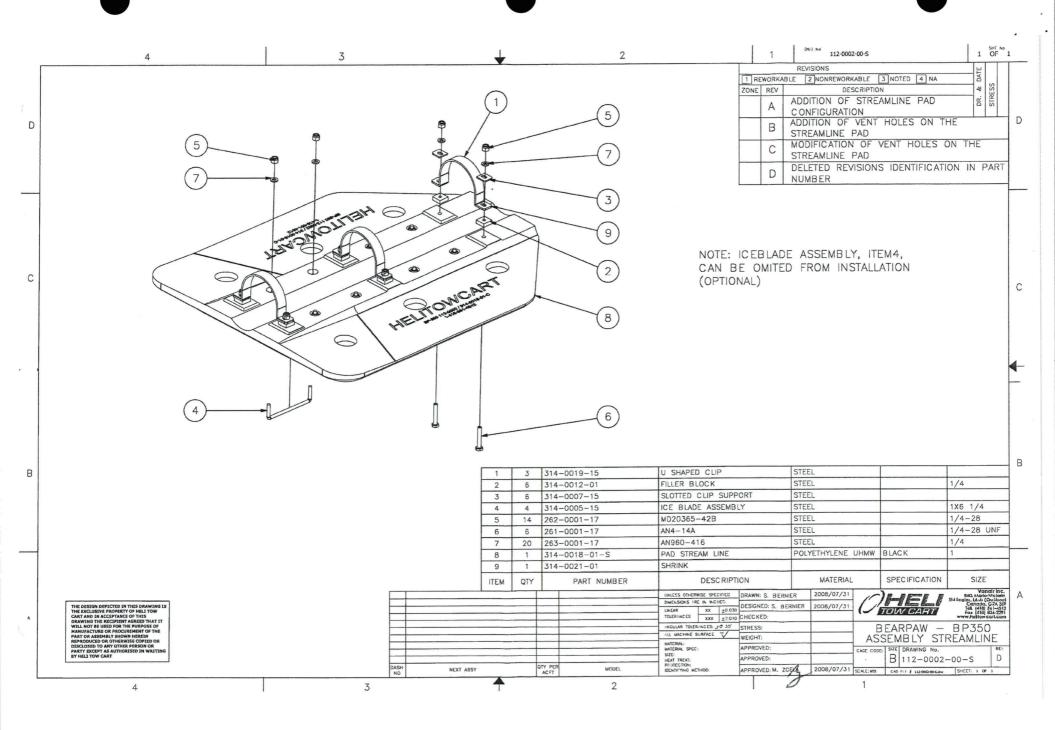


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Department of Transport

Supplemental Type Certificate

This approval is issued to:

Number: SH06-24

Helitowcart Inc.

Issue No.: 2

860 Marie-Victorin

Approval Date: August 17, 2006

St-Nicholas, Levis, Quebec

Issue Date: December 19, 2006

Canada G7A 3S9

4

Responsible Office:

Quebec

Aircraft/Engine Type or Model:

See Continuation Sheet Page 2 of 2

Canadian Type Certificate or Equivalent:

See Continuation Sheet Page 2 of 2

Description of Type Design Change:

Installation of Helitowcart BearPaw Model BP350

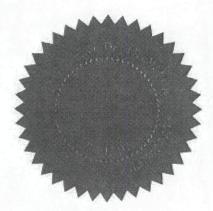
Installation/Operating Data, Required Equipment and Limitations:

For the Robinson Models R44 and R44 II Helicopters:

Installation of Helitowcart Bear Paw Model BP350 is to be performed in accordance with TC approved Helitowcart Inc. Master Document List, Report: HTC-MDL-BP-R44-1000, Revision NC dated August 8, 2006, or later Transport Canada approved revision.

The BearPaw must be installed in accordance with Helitowcart Inc. Installation Instructions Document: "314-0011-00-A, BearPaw Model BP44, Installation Instructions – R44" as specified by Helitowcart Inc. Master Document List, Report: HTC-MDL-BP-R44-1000.

See Continuation Sheet Page 2 of 2



Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated will not adversely affect the airworthiness of the modified product.

Pierre G. Richard For Minister of Transport

Number: SH06-24 Issue 2

NOTE: THIS ADDENDUM SHALL REMAIN PART OF THE CERTIFICATE REFERRED TO THEREIN.

Installation/Operating Data, Required Equipment and Limitations (Cont'd):

For the Eurocopter (formerly Aerospatiale) AS350 and AS355 Series Helicopters:

Installation of Helitowcart Bear Paw Model BP350 is to be performed in accordance with TC approved Helitowcart Inc. Master Document List, Report: HTC-MDL-BP-AS350/355-1000, Revision A dated November 22, 2006, or later Transport Canada approved revision.

The BearPaw must be installed in accordance with Helitowcart Inc. Installation Instructions Document: "314-0020-00-A, BearPaw Model BP350, Installation Instructions – AS350/355" as specified by Helitowcart Inc. Master Document List, Report: HTC-MDL-BP-AS350/355-1000.

	Fleet Eligibility List							
Make	Model	Type Certificate Data Sheet						
Robinson	R44	H-97						
Robinson	R44 II	H-97						
Eurocopter	AS 350 B	H-83						
Eurocopter	AS 350 B1	H-83						
Eurocopter	AS 350 B2	H-83						
Eurocopter	AS 350 B3	H-83						
Eurocopter	AS 350 BA	H-83						
Eurocopter	AS 350 D	H-83						
Eurocopter	AS 350 D1	H-83						
Eurocopter	AS 355 E	H-87						
Eurocopter	AS 355 F	H-87						
Eurocopter	AS 355 F1	H-87						
Eurocopter	AS 355 F2	H-87						
Eurocopter	AS 355 N	H-87						

Bepartment of Transportation -- Federal Abiation Administration

Supplemental Type Certificate

IMPORT

Number SR02432NY

This certificate issued to

Helitowcart (Vanair Inc.) 860 Marie-Victorin Saint-Nicolas, Levis, Quebec Canada G7A 3S9

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of * of the * Regulations.

- Original Product Type Certificate Number: *
 - Make:
- * See Approved Model List AML No. SR02432NY for list of approved aircraft models, applicable airworthiness regulations, and required documents.

Model:

Description of Type Design Change:

Installation of Helitowcart Bear Paw Model BP350 in accordance with Helitowcart Inc. Master Document List, Report HTC-MDL-BP-R44-1000, Rev. NC, dated August 8, 2006, or later Transport Canada approved revision.

Limitations and Conditions:

- Instructions for Continued Airworthiness documents specified in AML SR02432NY or later Transport Canada accepted
 revisions, are required with this installation.
- 2. The Installer must determine whether this design change is compatible with previously approved modifications.
- If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration

Late of application: March 26, 2007

Date reissued:

Date of issuance:

July 20, 2007

Date amended:



By direction of the Administrator

(Signature)

TOR. Anthony Socias

Manager, New York Aircraft Certification Office

(Title)

Original Issue Date: July 20, 2007

PART	REGULATION	MAKE	MODEL	TCDS	REQUIRED	DOCUMENTATION	AML
					INSTALLATION	INSTRUCTIONS for	AMENDMENT
					INSTRUCTIONS	CONTINUED AIRWORTHINESS	DATE
27	Federal Aviation	Eurocopter France	AS350B, BI,	H9EU	Helitowcart Inc. Installation	Contained within Installation	
			B2, B3, BA,		Instructions - AS350/355, Bear	Instructions, page 6 of document no.	
			D, DI		Paw Model BP350, document	314-0200-00-A.	
					no. 314-0200-00-A, Rev. A,		
					dated November 20, 2006		
27	Federal Aviation	Eurocopter France	AS355E, F,	HIIEU	Helitowcart Inc. Installation	Contained within Installation	
			FI, F2, N		Instructions - AS350/355, Bear	Instructions, page 6 of document no.	
					Paw Model BP350, document	314-0200-00-A.	
					no. 314-0200-00-A, Rev.A,		
					dated November 20, 2006		
27	Federal Aviation	Robinson Helicopter	R44, R44 II	HIINM	Helitowcart Inc. Installation	Contained within Installation	
		Co.			Instructions - R44, Bear Paw	Instructions, page 5 of document no.	
					Model BP44, document no.	314-0011-00-A.	
					314-0011-00-A, Rev. A, dated		
					June 12, 2006		

FAA Approved:

Anthony Socias

Manager,

New York Aircraft Certification Office

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1	
Reviewed & approved by:		2006 09 09	\neg

Traceability data

Qty	Part No.	Desc:	Lot number
24	112 0002 00S-B	BP350 STREAMLINED	HTC-LNF- // 0525 - 01 HTC-LNF-yymmdd-seg
Include	S:		
	SEE ATTACHED	EXCEL CHART	LN-
			LN-
		W15.	LN-

Inspection Plan

Aspect	Sampling	Inspection Acceptance parameters
Α	100%	PRESENCE OF ICEBOANES IN BAGS
В	100%	" DOCUMENTS IN BAGS
С	100%	ALL IN MATCH PARTS FOR LOT
D	100%.	ALL COMPONENTS INTO BAGS
E	100%	BOX APPROPRIATELY INENTIFIED
Inspection	n Plan approved	by: N. BARBEAU Date: 2011 05 25

Inspection Records

Ok = T + initials

			$OR - I \cdot I$	iiiitiais			
Date:	Quantity	А	В	С	D	Е	Notes
2011 05 25	24 PAIRS	THE NB	the NB	on B	YOU NB	on ob	

Release certificates issue

Release Certificates issued: yes	no	By:	5.	Dantian	Date: 2011	05 26
Comments:						3 ×3

Comments:

ďρ	/ F0t 2	6		səəəji	d bəu	baire	N/d																		9 9		5 3
		87	LN110422-01	817	24	2	314 0018 01 C	Bp pads STREAMLINE	ורו	.7 1.	רוו	17 (SSA SDE
54	FN100316-01	192	20-62201 LN1	192	24	8	Se3 0002 12 C	iceblade Assy					71	רוו	171	ור.	٦١	7 1	٦	17	17	17	17	ורו	171	1	ברג רו
208	Aircraft Spruce MS21044N4 AN365-428A Lot 73831/ 719009		Aircraft Spruce MS21044N4 AN365-428A Lot 73831/718601		24	91	A 71 1000 262	Stude	רו	ור	רזו	ורו	Vi.	רזוו	ורז	7	71	11	1	רו	77	77	77	77	27 2	1	2 7 2 7 2
-		384	Aircraft Spruce AN960-416 Lot 74431/V7588	+90	74	91	A 71 1000 £82	Washers	17	71.	117	17/	A1:	117													Fd Him ba
_		ולל	LN110323-03	144	24	9	8 31 4 0019 15 8	U-shaped Clips	17	יו ר.	רזו	176	١١	רזו													ורורו
		288	LN110323-04		24	12	314 0007 15 B	Slotted clip Supports	17	11.	רוו	17/	1	רוו	171	۱ ٦	٦١	7 1	٦	17	17	17	17	17	171	1	ו רו רו
		288	Aircraft Spruce AN4-14A lot 74944/14597	882	24	15	A 71 1000 13S	Apr-pNA stlo8	17	71	117	170	16	רגוו	171	ור	71	7 1	٦	17	17	17	17	ורו	171	1	ורורו
150	Aircraft Spruce MS21044N4 AN365-428A Lot 73831/ 719009		Aircraft Spruce MS21044N4 AN365-428A Lot 73831/718601		24	15	A 71 1000 S3S	stuV	17	171.	117	וון	1	117	ורו	7	7 1	11	+	17	77	77	77	77	27 2	1	1 11 17 2 17 2 17 2
38	Gr Polyfab LN-110522-01	929	Gr Polytab LN-110323-06 Gr Polytab LN-110323-06		24	12	A 71 1000 83S A 20 2100 418	Washers Filler blocks 1/4"					-											11	111	17	5 FS 5×F5

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Qty	Part No.	Desc:	Lot number
9	112 0002 00 5-1	BP350 STREAMLINED	HTC-LNF- /0 /2 06 - 0/ HTC-LNF-yymmdd-seq
Include	es:		
18	314 0018 01 C	BEARRAW RAD WHACES	LN- 1011:27-01 3
54	314 0019 15 A	4-SHAPED CUP	LN-08/201-04
108	34 0007 15 B	SLOTTED CLIP SUPPORT	LN-100315-01
72	314 0005 15A	TCEBLADE ASS'9	LN-100316-01 96 r
108	314 0012 01A	FILLER BLOCKS	LN-100424-01 = 08 PAIRES = 96 CL 09 12 08-01 = 01 PAIRE = BIEFF LN-73445/14597 AIRCRAFT SPRUCE
(03	261 0001 17A	BOCTS (AN4-14A)	
252	262 0001 17 A	NUTS	LN- MS2/044 NA 67 7/322/7/126/ Aircraft spice
	263 0001 17 A ction Plan	WASHERS	LN -73384/ V3912 Aircraft sproce

Aspect	Sampling		Inspection	Acceptance parameters
Α	100%	7	PRESENCE OF ICEBLADES	
В	1	1	u u DOCUMENTS	
С		7	ALL LA MATCH PARTS FOR LOT	
D			ALL COMPONENTS INTO BAGS	
Е			BOX APPROPRIATELY IDENTIFY	80
Inspectio	n Plan approve	ed	by: D. Poor for	Date: 201013 00

Inspection Records

Ok = T + initials

				iiiiiais			
Date:	Quantity	Α	В	С	D	Е	Notes
2010 12 06	9 PAIRS	OK NB	OK NB	ocos	aLUB	ok NB	

Release certificates issue

Release Certificates issued:	yes	no	By:	2	. 13	a.e.a.	Date: 100 1206
	-			_			

Comments:

HTC-LDF- 101206-01

* BOITE # FILLER BLOCKS BATCH DIFF VOIR DOTE SI-HAUT.

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1	
Reviewed & approved by:		2006 09 09	\exists

	Qty	Part No.	Desc:	Lot number
	2	112 0002 008-	BP350 STREAMLINED	HTC-LNF- /0/0/4-0/ HTC-LNF-yymmdd-seg
	Include	es:		7,7
	4	314 0018 01 C	BEARTAN PAD+ & APRES	LN- 100608-01
	12	314 0019 15 A	4-SHARED CLIP	LN- 08/201-04
	24	314 0007 15 B	SLOTTED CLIP SUPPORT	LN- 1003 15 - 01
-	16	314 0005 15 A	ICEBLADE ASSY	LN- 100316-01
-	24	314 0012 01 A	FILLER BLOCKS	LN- 09 12 08 - 01
-	24	26/000/17 A	BOLTS (ANA-14A)	LN-73445/14557 AIRCRAFT SPRUCE
	56	262 0001 17 A	NUTS	LN-MS21044N4 AN305-428A 71322/11726/ Aircraft SPRUCE
_	80 Inspe	263	WASHERS	LN - 72477/48272 AN960-416 AIRCRAFTSTRUCE
	Acnost	Compling	-1: - · ·	

Aspect	Sampling	Inspection	Acceptance parameters
Α	100%	PRESENCE OF ICEBLADES	- A S S P CONTROL P CONTRO
В	1	u " DOCUMENTS	
С		ALL LN MATCH PARTS FOR LOT	
D		ALL COMPONENTS INTO BAGS	
E	()	BOX APPROPRIATELY IDENTIFIE	D
Inspectio	n Plan approv	ed by: 26	Date: Zorco 10 14

Inspection Records

Ok = T + initials

Date:	Quantity	Α	В	С	D	E	Notes
2010 10 14	2 PAINS	OK NB	on No	ac DB	BENB	borns	

Release certificates issue

Release Certificates issue	d: ye	s no	By:	Discoler.	Date: 2010-16-14
Comments:					2010.2010 16 14

GTC-CNF- 10 10 14 - 01 - 02

F40-02 htc RELEASE INSPECTION- General (2006 09 09).doc / QMS Manager approval:

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Qty	Part No.	Desc:	Lot number
4	112 0002 00	S-B BP350 GREANLINED	HTC-LNF- 100706 -01 HTC-LNF-yymmdd-seq
Include	es:	3	,
8	314 0018 01	C. BEARPAWPAD +6 HOW	LN- 1006 08-01
24	314 0019 15		LN-08 12 01-04
48	314 0007 15	B SLOTTED CLIP SUPPORT	LN- 10 03 15-01
32	314 0005 15	A ICEBIADE ASS'Y	LN- 10 03 16-01
48	314 0012 01	A FILLER BLOCKS	LN-09 1208-01
48	26/ 000/ 17	A BOCTS (AN4-14A)	LN-73445/14597 SPRUCE & SPECIALTY
112	262 2001 17	- A NUTS	11322/717261 AINCRAFT SPAUCE
Inspe	263	-A WASHERS	LN-AN960-416 AIRCRAFT OPENCES SPECIALTY LN 72477/U 8272
Aspect		Inspection	Acceptance parameters
A	100%.	PRESENCE OF ICEBCADES	
В		" DOCUMENTS	

Aspect	Sampling	Inspection	Acceptance parameters
Α	100%.	PRESENCE OF ICEBCADES	
В		" DOCUMENTS	
С		ALL LN MATCH PARTS FOR LOT	
D		ALL COMPONENTS INTO BAGS	
E	V	BOX APPROPRIATELY I DENTIFIED	
Inspectio	n Plan approve		Date: 2010.07.06

Inspection Records

Ok = T + initials

Date:	Quantity	Α	В	С	D	E	Notes
2010.07.06	4 Pairs	sel NB	ON NB	ore pr	bus	on NB	

Release certificates issue

Nelease certificates issue		
Release Certificates issued: yes	s no By:	Date: 200 0706
Comments:		20,100,700
HTC-LNE-	100706-01	~
	60	7
	03	1
	04*	A Returned a Re-inspected
		& Parts Replaced See
		d Re-issued help

F40-02 htc RELEASE INSPECTION- General (2006 09 09).doc / QMS Manager approval:

Page 1 of 1

LN-110323-03 13P350 U-Clip 314 0019 15-A Atg 164

LN-080807-01 DE
PART: 314-0019-15-A
U-SHAPED CLIB
974: 22 (ORIGINAL LOT 100)

	•	
Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:	A.y.	2006 09 09

Traceability data

Qty Part No.

Qty	Part No.	Desc:	Lot number
/	112 0002 00 S-B	BP350 STREAM (INED	HTC-LNF- 10 07 06 - 04 AT HTC-LNF-yymmdd-seq
Includ	es:	,	
2	314 0018 OI C	SP PAD STREAMCINED	LN- 100608-01
6	314 0019 15 A	U-SHAPED CLIPS	LN- //0323-03
12	314 0007-15B	SLOTTED CUP Support	LN- 100315-01
8	3/40005 15 A	TREBGADE ASSY	LN- 100316-01
12	3140012 01 A	FICIER BLOCKS	LN-091208-01
12	26/0001 17 A	BOCTS (ANA-14A)	LN- 73445/14697 AIRCRAFT SPRUCE
•	262 0001 17 A	NUTS	LN- MS 21044N4 AN365-428A 71322/717201 AIRCR SPRICE
Insne	263 0001 17 A	WASHERS	LN- ANGGO- 416 AireR. SPRU 72477/11 8272

Inspection Plan

	tion i lan		
Aspect	Sampling	Inspection	Acceptance parameters
Α	100%	PRESENCE OF ICEBIADES -	-> ALKEADY INSTACLE
В	LI	" TOCCHONS	113-21.0) 11-3111-30
С	и	ALL LN MATER PARTS FOR 10	7
D	(1	4 COMPONEATS INTO RAG	
E	n	4 BOXAPPROPRIATELY IS	
Inspection	on Plan approve		Date: 2017 02 07

Inspection Records

Ok = T + initials

Date:	Quantity	Α	В	С	D	E	Notes
20170205	1 PAIR	onde	olc NB	ours	on AB	on DR	
		1		1			
		installed	<u></u>	Bee Note h	alow		

Release certificates issue

Release Certificates issued: yes	no	By:	P.	Bo. Loon	Date: 2017 0207
Comments					

* * THIS BP KIT WAS RETURNED BY A CUSTOMER 1PAD REPAIRED: I NIP REMOVED

& ALL U-CLIPS REPLACEDRY NEW BATCH.



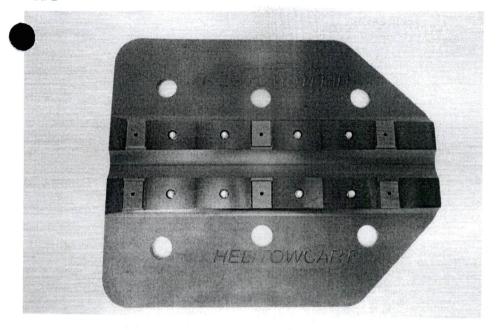
Authorized Release Certificate

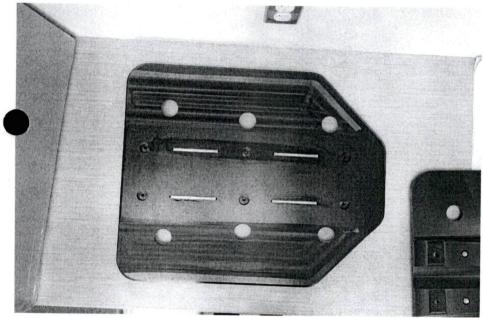
			2. Authorize Form One	d Release Certificate	3.Form Tracking No. HTC-RC-100706-04A	
Helitowo	ved Organization Name & Address: art (Vanair inc.) honse-Desrochers, St-Nicolas, Levis	, Quebec, Canada G7A 5K6	5.Work Orde	er/Contract/Invoice		
6. Item	7.Description	8.Part no.	9.Qty	10. Serial / Lot no.		11.Status / work
1	Helitowcart – BP350 BearPaw For Astar 350/355	HTC-MDL-BP350/355-1000_A 112-0002-00	2	HTC-LNF-100706-01		New
						4
12. Rema ***Stream Canada: United St	nlined bearpaw pads issued accordin Transport Canada Approved m	g to Service Bulletin 080811 rev.a from anufacturer no 27-06, Transport Canada			pad as per ECO no	o.3 NB/080916
	tifies that the items identified ere manufactured in conformity	Approved design data and are in condition for safe operation Non approved design data specified in block 12.	identified in block 12	in block 12, the work n block 11 and described in has been performed in	_	Maintenance release.
13b. Sign	s. Barles	13c. Approved Organization. Number Inspector no: 001 / STC no SH06-24 Approved manufacturer no 27-06	Regulation 14b. Sign			d Organization Number
13d. Nam Nathalie	e Barbeau, Quality Manager	13e. Date (dd/mm/yyyy)	14d. Nam	е	14e. Date (do	/mm/yyyy)

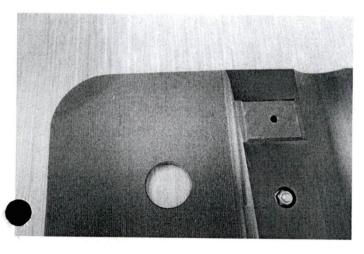
Ref: Transport Canada: Form One

- 1- This document does not constitute authority to install the part.
- 2- Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.
- 3- Statements 13a & 14a do not constitute installation certification. In all cases the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown

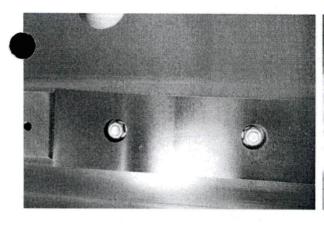
-40-01	HTC-RC-100706-04A	BP350 ()(1	7_02	_07)Form1.doc/	QMS Manager	approva
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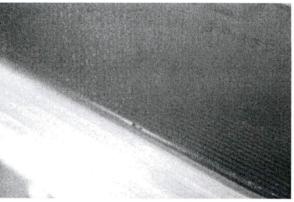


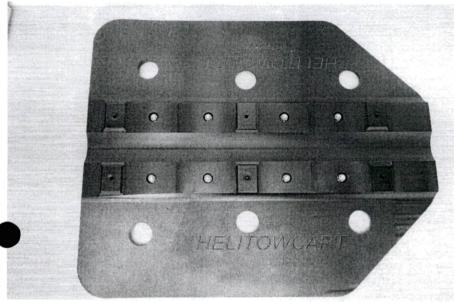


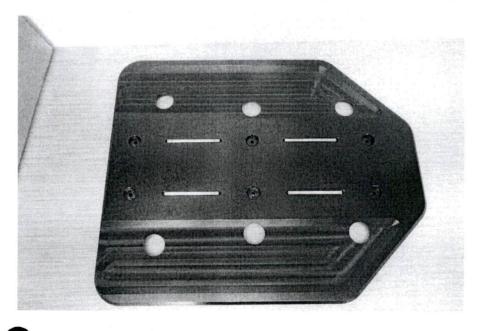


 $HTC\text{-}LNF\text{-}100706\text{-}04A_ReinspectionPictures} _ (2017_02_07) nb. docx$









Helitowcart - NON CONFORMITY report	F80-02	Page 1 of 1			
Reviewed & approved by:		2006 09 09			
Carlo A Name of the Control of the C					
Section A - Non conformity description Product / Output:	NOD				
BP350 Pair (KETURNED FROM CUSTOMERS)	NCR:	02-04-nh-0 y-mm-dd-initials-#			
Product no: 112 - 0002 - 00	ASS no:				
Non conformities: Customer damaged broduct	CARPAR no:				
.) 2x 11 - clips pent at of shape					
	Supplier:				
2) 1 x Pad. Scrached	Supplier ref no:	h			
	Quantity rejected:	1 bain			
Initiated by: Date:	Quantity in the lot:	1			
Section B – Prescribed disposition					
Decision & notes:	,	Repair			
		□ Use as is			
	supplier	□ Derogation (=use as is with or without repair)			
Actions	Resp	Verified by			
1) Repair Her Roplace 2. cletips	inoxeyr				
	,				
2) Polish pad and actout nipped plastic	1.e. inp.				
	J				
		,			
Prescribed by: Date:					
Section C – Final verification					
Decision & notes:	, 0	/			
Kif dis-assembled, repaired Pad, chargedall U-clip sprosts + Reinspected					
Closed by: Date: 202702	5 KQ182	speck			
Closed by: Description Date: 2017-02	0+				

Nathalie Barbeau

From:

Nathalie Barbeau [nbarbeau@helitowcart.com]

Sent:

February-04-11 11:18 AM

To:

'Dave Rintala'

Cc:

'info@helitowcart.com'

Subject:

Credit for Returned bearpaw pair (F3640, Tahoe Heli-Cource, Nevada)

Attachments: Damaged U-clips.jpg; Damaged Pad.jpg

Hello Dave.

I received the returned bearpaw 350 pair.

As I was inspecting it for re-stocking I discovered that components have been damaged.

Two 12 ga U-clips have been bent and one pad had a knife cut on it.

Also both pads were chipped.

Find attached a picture of the damaged U-clips and of the damage on pads.

I will take the bearpaws back of course, but I have to reduce the credit to issue as I cannot sell this pair as is.

I will have to get the U-clips repaired and if not satisfying have new ones made to replace the damaged ones. I will also have to attempt to repair the damaged pad (see picture). The second pad also had a rough abrasion on it.

So we will deduct \$360 from the credit. This is our cost for the custom repair work and also for the fact that I cannot resell this pair as brand new due to the chip repair on the edge that cannot be fully brought back to standard.

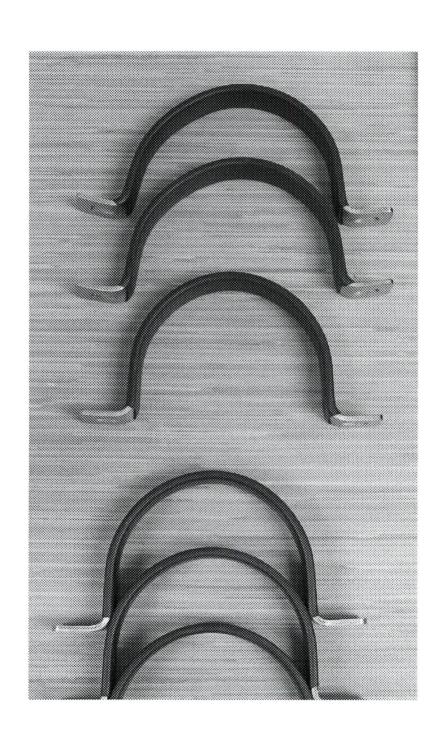
Very sorry for this but I really have no choice. My accountant will issue the credit today and will email it to you.

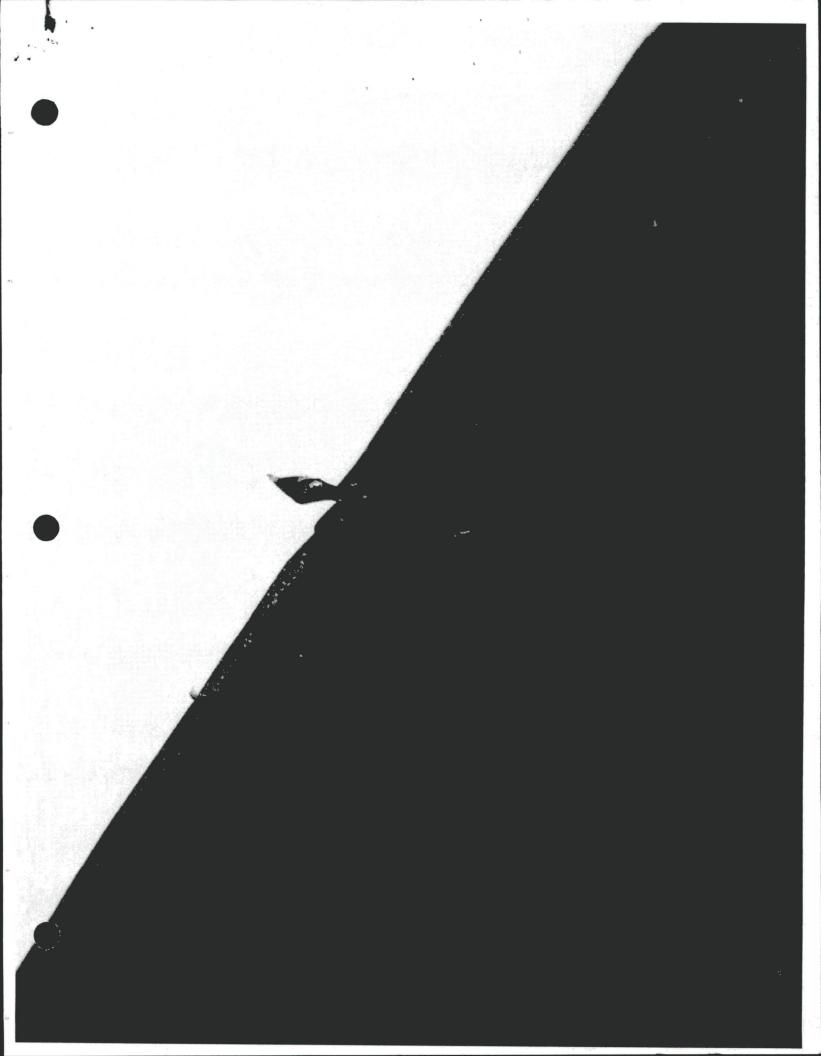
Best Regards,

Ms Nathalie Barbeau VP Commercial Affairs

Helitowcart (Vanair inc.) 877A Alphonse-Desrochers St-Nicolas, Levis, Qc Canada, G7A 5K6

Tel: +1.418.561.4512
Fx: +1.418.836.4575
nbarbeau@helitowcart.com
info@helitowcart.com
www.helitowcart.com







Authorized Release Certificate

T 4 A = = = =									
	ving National Aviation Authority / Countro	у	2. Authorized Form One	Release Certificate		3.Form Tracking No.			
			Form One			HTC-RC-100706-04			
4. Appro	ved Organization Name & Address:		5.Work Order/Contract/Invoice						
Helitow	cart (Vanair inc.)		O. WORK Order	Contractinivoice					
860, St-I	Nicolas, Levis, Quebec, Canada G7A 5	5K6	Invoice 3640	David Rintala, Tahoe He	li Source –HeliTaho	oe, Nevada			
C Ham	7 December 2	To 5							
6. Item	7.Description Helitowcart – BP350 BearPaw	8.Part no.	9.Qty	10. Serial / Lot no.		11.Status / work			
1	For Astar 350/355	HTC-MDL-BP350/355-1000_A 112-0002-00	2	HTC-LNF-100608-01		New			
	NCP 2		0						
	25								
		200							
12. Rema	arks nlined bearnaw pads issued accordin	g to Service Bulletin 080811 rev.a from	Halitawaant	i o with Count balance	-1				
					oad as per ECO no.	3 NB/080916			
Canada: United S	Transport Canada Approved m tates FAA STC no. SR02432NY	anufacturer no 27-06, Transport Canada	STC no. SH06-2	24					
13a Ce	rtifies that the items identified	Approved design data and are in	145						
above w	ere manufactured in conformity	condition for safe operation			O CAR 571.10 N	laintenance release.			
to:		New comment to the transfer of	specified in	block 12, the work					
	0	Non approved design data specified in block 12	block 12 h	has been performed in	Other regulation	on analified in black 40			
			Regulations	vith the Canadian Aviation	Offier regulation	on specified in block 12.			
13b. Sigr	ature	13c. Approved Organization. Number	14b. Signat	ure	14c. Approved	Organization Number			
N	tarrae	Approved manufacturer no 27-06							
13d. Nam		13e. Date (dd/mm/yyyy)	14d. Name		14e. Date (dd/	mm/yyyy)			
ivatrialle	barbeau, Quality Manager	07/12/2010							
	nature . Have a	in block 12. 13c. Approved Organization. Number Inspector no: 001 / STC no SH06-24 Approved manufacturer no 27-06	block 12 h compliance v Regulations 14b. Signati	has been performed in with the Canadian Aviation	14c. Approved	on specified in block 12. I Organization Number			

Ref: Transport Canada: Form One

- 1- This document does not constitute authority to install the part.
- 2- Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified.
- 3- Statements 13a & 14a do not constitute installation certification. In all cases the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown

F40-01 HTC-RC-100706-04 BP350 (F3640 Tahoe HeliSource-Helitao USA)(10 12 07)Form1.doc/ QMS Manager approval:

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Qty	Part No.	Desc:	Lot number
3	112 0002 00 \$ 1	BP350 STREAMLINED	HTC-LNF- [00608-0] HTC-LNF-yymmdd-seq
Include	es:		
6	314-0018-01-C	BEARPAW PAD & G HOCES	LN- 1006 08 - 01 (BATCH3)
18	314-0019-15-A	4-SHAPED CLIP	LN- 68 1201-04
36	314-0007-15-B	SLOTTED CLIP SUPPORT	LN- 100315-01
24	314-0005-15-A	ICEBLADE ASS'Y	LN- 100316-01
36	314-0012-01-A	FILLER BLOCKS	LN- 09/208-0/ (BATCHZ)
34	261-0001-17-A	BOCTS (AN4.14A)	LN- 73445/14597 Aircraft Supply
84	262-0001-A-A	NUTS	LN- MS 210 44 NA / AN 365-4528A
120	263-0001-17-A	WASHERS	AN960-416 / Let 72477/48272

Inspection Plan

Aspect	Sampling	Inspection	Acceptance parameters
Α	100%.	PRESENCE OF ICE BLADET	
В	1	TAMBLOOG " "	
С		ALL IN MATCH PARTS FOR LOT	
D		ALL COMPONENTS INTO BAGS	
E		Box APPROPRIATENT IDENTIFIED	
Inspection	on Plan approve	ed by:	Date: 200 06.08

Inspection Records

Ok = T + initials

Date:	Quantity	Α	В	С	D	E	Notes
2010.06.07	3 Pairs	on NB	on DB	SH B	ER DB	ta NB	

Release certificates issue

Release Certificates issued: yes no By: N. Touten Date: Locook

Comments:

Helitow	Cart -	KELEASI	INSPEC	TION ge	ilerai			1 40-02	-	1 age 1 of 1	
Reviewe	ed & a	oproved by:	ere .					2006 09 09			
		,									
Trace	abilit	y data									_
Qty	Part	No.	Desc:	(ler	Lot r	number					
,				O DE P	L SOA	ПТС	HTC-LNF- 09 05 22 - 01				
PAIR	112	.0007.	00.15	BEARA	tw As	554		-LNF-yym			1
Include	s.			ECHNIF	100 FL		11110	LIVI -yyiii	iiiidu-	36Q	-
											_
2	314	.0018	01 13 8	EARPA	N PAD		LN-	061	115		AST LOT
		0019.		1-SHAP		PS.	LN-	061	114	OF OF	EACH ER MADE
12						LN-			5-02 [EK MAN	
8							LN-			5-01	7
12 314.0012-01A FILLER BLOCKS					LN-			Disp. (Jee B	ATCH)		
12,261.0001.17A BOLTS						LN-	LN- MONDISPERSE				
28		J. 0001.	`	VUTS			LN-	Pour	U CUI	PS-68323/716	ACT.
40		3.0001.			75			Pour 1	رستا	PS: 70686/NA	S1149 F
Inspe			C+11 (اعارادا				sid you.	PSU	e icerlape	04631
Aspect		mpling	Inspecti	on			Acce	eptance p	paran	neters	7
Α		00%	19	UCE UF	KEBLA	වල්					
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С				J MATCH							
D			ALL CO	THONEL	AS INTO	BAGS					
E						PENTFIE	•				
Inspect	tion Pla	an approved	d by: 🛭 😥	Bans	2ai		Date:	09	05	28	
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	ction	Records		Ok = T+	_	-					
Date:		Quantity	Α	В	С	D	E	Not	0	SiT TC ZO	9
905	28		DIC PB	GR.NB	ORDS	OK WY	OKE	3	HO	del 10 les	
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			†	-	-						

F40-02

Page 1 of 1

Release Certificates issued: yes no By: D. Four a Date: 69 0627

Comments:

This Pair is Made of the First Pads made.

This rit (PADS, U-CUPS, SLOTTED CLIP SUPPORTS, FILLER BUCKS & TLEBLADES)

WAS USED FOR THE FIRST ASSY ON HELL. PART OF VALIDATION

PROCESS (SOCCESSFU). This EXPLAIN CONPONENTS P/N WITH LOT NO

DATING FROM 2006. NOTE: AT THE TIME LOT NO WERE NOT RECORDED

FOR FILLER BUCKS, BULTS, BULTS & WASHERS.

(1: 090522-01

MEET SPECIFICATIONS / 10

F40-02 htc RELEASE INSPECTION- General (2006 09 09).doc / QMS Manager approval:

Helitowcart - RELEASE INSPECTION general

Page 1 of 1

NOTES: L'ACIDE L'ACIDE N'ÉTAISNI PAS

NITEZ: 1 MODELE DE PAD ÉTAIT MAT EN DESSOUS.

-= AUCUN IMPACI QUALITÉ

CECI SONT NOTES POUR SE SOUVERIR DE CETTE

PAIRE SEUCETEUT.

NB 2009.05.28

Helitow	cart	- RELEASE	INSPE	ECTION g	eneral			F40-02	Page 1 of 1
		pproved by:							2006 09 09
		ty data							
Qty	Part	No.		Desc:			Lot r	number	
Paie	112	0002.00	.B.S	STREAMCIA	BP350	. Hoces		-LNF- O	70521-01 d-seg
Includes:									
2	3/4	0018-0	(©)	BEARA	w As y	ulitores GREAMUN	LN-	0905	04-01
6	314	1-9100.	SA	4. SHA	PED CL	iPs	LN-	0808	07-04
)· fcoo		SOTTE	o clif	Seffort	LN-	0712	06-01
8	\$ 3/4.0005.15.A ICEBLADE ASSY					LN-	LN-081201-05		
		1.0012.0					LN-	0803	
12	261	. 0001.	A.FI	BOCTS					12130/14471
28	262	.0001.	(7·A	NOTS			LN-	M521044	8222/716449
4º Insped		Plan	(+.H)	was red	2 25			was (1 49	FOA63P 67:70686
Aspect	Sa	mpling	Inspec				Acce	eptance par	ameters
A		100%		SENE					
В	-			VCE OF D					
C D	-			N MATCH			-	***************************************	
E F	+	1_		omport					
	on Pl	an approved	by b	APPROPR	HTECY	1 DE MAINE		09050	2/-01
		ш. аррготоа	~y. ,~	Marie	· ·		Date.	0 1030	4 0/
	ction	Records		Ok = T	+initials				
Date:		Quantity	A	В	С	D	Е	Notes	
12/2.	· I			40	4.6	1 10			

Pologog portificatos issue

						_	INOICS
090521	1	OK WB	on as	ou is	de NB		

Release certificates issue		
Release Certificates issued: yes no	By: N. Balla	Date: 090521-0
Comments:		
Corrected wrb into - * heplaced NDL rev d INST 34	090521-01 E by MDL NOT F EN C by 314, NOV E	- Di Barles

F40-02 htc RELEASE INSPECTION- General (2006 09 09).doc / QMS Manager approval:

Page 1 of 1

F40-02	Page 1 of 1
	2006 09 09
	F40-02

	Reviewed	& approved by:							2006 09 09	1	
	Tracca	bility data									
		bility data Part No.		Doos			11.54.5			٦	
0-	Qty F	Part INO.		Desc:	0150	-	Lot n	umber		1	
· ·	10 PAIRES	12.0002.00	B. B. S	TAEAMLINE	0350 Bull	HOCES		LNF- 09 c	0505-01 -seq		
	Includes:					,				1	
季	20 3	314.0018.01	(C)	BEARPAW	PAD STA	HOLES EAM CINE 1	LN-	90504	-01		
	60 3	14.0019.15	AL	1. SHAPE	o ecips	5	LN-	28 12 01	-03 (pairs)	1	
	120 3	14.0007.13	13 5	COTTED C	UPSIR	RT	LN-	81201-	- 06 - AN4-14	A	118
	80 31	14.0005.15	-A 7	Ceruado	E ASSY		LN-	181201 -	-05 12130/1	خ '	INB
	120 3	14.0012.01-	A	FICLER	BLOCKS		*LN-C	80313-	0 64376/13928 6-7-63-705-3846	CIA	1)-13
	120 20	61.0001-17.4	1	BOCTS							2) LA
	120 2	62.0001.17.1	9 ^	UTS		(-02	LN-7	MIC AAG (12	M W 08/23/-01 W 090503-01	_	_
	240 2	63.000/. 17	9 0	NASHERS	•	-	LOTO	804000412	5K4: NAS1149 FO4	63P	1
	Inspect	ion Plan								7	
	Aspect	Sampling	Inspect	ion			Acce	otance parar	meters	1 1	1
	Α	100%. ~	PRESEN	ce of ic	EKLADE	5				7	PA AP
	В	100%	PRESER	GOF D	CUMEN	15 (4)				W.	
	С	100%	ALL LN	MATCH	PARTS F	OR LN				1=	S
	D	1601.	ALL COM	1 PONEN	TS INTO	BAGS				40	9 5
	E	100%.	Box AF	PROPRIAT	ecy idel	VINCE				8-1	2 8
	Inspection	n Plan approved	by: N.	Parla	an		Date:	09 05	05	& D	7 5
	Inonocti	ion Dooreda								35000 98	PHYSIA/PERNS
		ion Records		Ok = T +			_			40	A
	Date:	Quantity	Α	В	С	D	E	Notes			
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Release certificates issue Release Certificates issued: yes Date: 070505 By: no Comments: 090505-01

LN091208-01 F40-02 htt RELEASE INSPECTION- General (2006 09 09).doc) QMS Manager approval:

Sjan og

1 x BP350 S. 6Hdes

lo Show

(no batcher que LOF-090107-01

AH: 1 PAD Seulement

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Qty	Part No.	Desc:	Lot number
5 PAIR	112.00°2-00E	BP 350 STREAMINED W/HOURS	HTC-LNF- 09 0 / 07 - 0/ HTC-LNF-yymmdd-seg
Include	es:		THO EM Symmad seq
10	314.0018.010	BEARPAW PAD STREAMLINED	LN- 081217 -0/
	314-0019-15 A		LN-08/201-03
60	314.0007.15 B	SCOTTED CLIP SUPPORT	LN-071206-01
40	314.0005.15 A	ICEBLAGE ASSY	LN-08/201-05
60	314.0012.01 A	FILLER BLOOKS	LN-08 03/3-0/
60	261.0001.17 A	BOCTS	LN- API ANA-14A /63943. 12407 (50
60	262.0001. (7 A	NUTS	LN-5KUMS2104ANA + 100 WTHO LN/081231-01 FROM MANUE
Inspe	⊇G3·∞C-C→ A ction Plan	CO ASHERS	LN- 08 04000417 FADA SEN: NAS1149FO40
A	0 1'		

Λ	10 11	T	
Aspect	Sampling	Inspection	Acceptance parameters
Α	100%	PRESENCE OF ICEBLADES	
В	100 T.	PRESENCE OF DOCUMENTS (4)	
С	100%	ALL LN MATCH PARTS FOR LOT	
D	(00%.	ALL COMPONENTS INTO BAGS	
E	100%	BOX APPROPRIATELY IDENTIFIED	
Inspection	on Plan approve	d by. D. Barton	Date: 08 0/ 07

Inspection Records

Ok = T + initials

Date: 09 01 07	Quantity	Α	В	С	D	E	Notes
09 01 07	S PAIRS -	on its	OK PB	OK PB	Ju AB	The UD	

_					-	
R	'el	ease	certif	icate	es iss	ue

Release Certificates issued: 'yes	no	By:	D. K	soli	Dat Dat	te: 090	1107	L
Commonto:						,,,		_

Comments:

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09



Qty	Part No.	Desc:	Lot number
PAIR	112-0002.00 B-	STREAMLINED WHOLES	HTC-LNF- 08 /2 /3 - 01 HTC-LNF-yymmdd-seq
Include	es:		
	11	- w/Hover	IN
2	314.0018-01 (C)	BEARPAU PAD STREATUNED	LN- 081217-01
6	314.0019.15 A	4- SHAPED CUPS	LN- 08 08 67 · 01
12	314.0007.15 B	SLOTTED CUP SUPPORTS	LN- 07 1206-01
8	314 .0005-15 A	TCEBLADE ASSY	LN-08 1201-05
12	314.0012.01 A	FICER BLOCKS	LN-08 03 13 - 0/ ,
12	261.0001.17 A	BOCTS	LN- ANA-14A :63943 13497
		NUTS	LN- MS 21044 N4 /641 71/713399
24	263.000/.T+ A	WASHERS	W-NAS1149F0463P/62789
Inspe	ction Plan		
Aspect	Sampling Inspec	ction	Acceptance parameters

Aspect	Sampling	Inspection	Acceptance parameters
Α	100%	PRESENCE OF ICEBLADES	
В	100%	PRESENCE OF DOCUMENTS (4)	
С	100 %	ALL LN MATCH PARTS FOR LOT	
D	100%	ALL COMPONENTS INTO BAGS	
E	100%	BOX APPROPRIATELY IDENTIL	iad
Inspection	n Plan approv	ed by: A. Bould	Date: 08 12 18

Inspection Records

Ok = T + initials

Date:	Quantity	Ą	В	С	D	E	Notes
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	-						

Dal		certificat		
Rei	lease	сеппіса	res	issue

Release Certificates issued: yes no	By:	2:	1500	tea	Date: 🔗	13	10
Comments:					24.0. 08		

081218-01

		- KELEASI		ECTION	generai			F40-02	Page 1 of 1		
Review	Reviewed & approved by:								2006 09 09		
Trace	abil	ity data									
Qty	Par	t No.		Desc:			Lo	Lot number			
				BP350	0						
								C-LNF-			
Include	25.						Н	C-LNF-yymmdo	a-seq		
morado	T .										
							LN				
							LN				
							LN	-			
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AT		*			BLOCK		LN	-			
1	رري	√ 		HOIS	+ NCATS		LN				
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Aspect		ampling	Inspe	ction	_		Ac	ceptance para	meters		
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D E	_										
	tion F	lan approved	d by:				Date	Date:			
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		tificates issu		no E	By:			Date:			
Commo		tilloates losa	cu. ycs	110 L	у.	***********************		Date.			

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Qty	Part No.	Desc:	Lot number
5 Pairs	112-0002.00.8	-S STREAMLINE-	HTC-LNF- 080522 - 01 HTC-LNF-yymmdd-seq
Include	S:		
10	314.0018.01.0	BEARTAW PAD STREAMLING	LN-080312 -01
		U-SHAPED CUPS	LN-080807-01 (D)
		SLOTTEN CLIP SUPPORT	LN-071206-01
40		TCEBLADE ASSY	LN-070818-01
	2	,	LN-
			LN-
			LN-

Inspection Plan

Aspect	Sampling	Inspection	Acceptance parameters
Δ	100%		Acceptance parameters
<u> </u>		PRESENCE OF ICEBLADES	
В	100%	PRESENCE OF DOCUMENTS	
С	100%	ALC LN MATCH PARTS FOR	407
D	100 T.	ALL COMPONENTS INTO BAGS	
E	100%	BOX APPROPRIATELY DENTIF	reb
Inspection	n Plan approve	d by:	Date:

Inspection Records

 $Ok = \sqrt{+initials}$

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Date:	Quantity	А	В	C	D	E	Notes
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Release certificates issue

Release Certificates issued: yes no By: ...

Date: 08.05.22

Comments:

- 02 - 03 - 04 PELI CAN INFORMED TO PIERCE GVENT HOLOS PER AD. AUGIL, 2008. NB. REFECO# 3. "SERV. BULLETIN 086811 rev. a" ALL S KITS SOLD TO HELI CAN

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	& approved by:	IIIOI LO	non go	ioiai				2006 09 09
Reviewed	& approved by.							
Traceal	bility data							
		D	esc:			Lot num	nber	
5		0	BP35	0-5		HTC.I.N	JE- 08	03/2-01
Paine	Part No. ∕ 2 · ○○○⊋ · ○	0.8.	STREW	MCIN	E -		F-yymmd	
Includes:								
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400 3	14.0007. L	5.B S	LOTTED	CciPS	PPORT	LN-0=	76124	2-01
B103	12.0002.1	KA TO	CEBCADO	E AST	1	LN- 6	7081	8-01
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D E	100%	BOX A	MADNE	EATS (NTS FOR	9/100		
D E	1000.	BOX A	MADNE	EATS (NTO BA	35		
D E Inspection	on Plan approved	Acc Co Acx A I by:	PAROPL	eats (NTO BA	9/100		
D E Inspection	on Plan approved	Acc Co Box A	Ok = V+	eats (NTO BA	9/100	Notes	
D E Inspection Inspection Date:	on Plan approved tion Records	Acc Co Acx A I by:	Ok = 14	ATECY	D	Date:	Notes	
D E Inspection Inspection Date:	on Plan approved	A	Ok = 14	ATECH	D	Date:	Notes	
D E Inspection Inspection Date:	on Plan approved tion Records	A	Ok = 14	ATECH	D	Date:	Notes	
D E Inspection Inspection Date:	on Plan approved tion Records	A	Ok = 14	ATECH	D	Date:	Notes	
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D E Inspection Inspection Date:	on Plan approved tion Records	A	Ok = 14	ATECH	D	Date:	Notes	
D E Inspection Inspection Date: 08.03.	tion Records Quantity	A SKUB	Ok = 14	ATECH	D	Date:	Notes	
D E Inspection Inspection Date: 08.03.	tion Records auantity a lo lass se certificates	A SEJA	Ok = 14	initials C consus	D	Date:		
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Inspection Inspection Inspection Date: 08. 63.	tion Records Quantity (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	A sky:	Ok = 14 B CLUB	initials C consus	D	Date:		e: 0803 (2
Inspection Inspection Inspection Inspection Date: 08.03.	tion Records Quantity A Company of the control of	A sissue led: yes	Ok = A	initials C consus	D	Date:	Date	
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Helitowcar	rt - RELEASE	INSPE	CTION ge	neral		F	40-02	Page 1 of 1
	& approved by:	11101 2			2006 09 09			
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Traceab	ility data							
	art No.		Desc:		0	Lot nu		
PAIR		. 45		350-		HTC-L	NF- 08	0311-01
1 11	2.0002-0	00-10	STRE	AMLIA) (NF-yymmo	
Includes:				^				
2	10 10 0	(6)	Brook	1 to	STORY MC:	LLN-	0003	11-01
	14.0018-0					I N-	00000	07-01-60
	14-0019-19		4 SHA1		-		-	
	4-0007.	5 B.	SLOTTED	cuf.	SUMBRI			26-02
8 31	12-0002.1	SA	ICE BU	A ZOGA	527		180 fc	8-01
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Inspecti	on Plan							
	Sampling	Inspect	tion			Accep	otance par	rameters
A	100%		ZME O	e Ice	BCADES			
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Helitow	Helitowcart - RELEASE INSPECTION general F40-02 Page 1 of 1								
	ed & approved by:				2006 09 09				
	Traceability data								
Qty	Part No.		Desc:	Lot number					
2 Pairs	112.0002.	00.B	BEARPAUL ASSY	HTC-LNF- 08	70309-01 d-seq				
Include				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(1B)				
4	314.0018.0	013	BEARPAW PAD	LN-06/15	1.06				
12	314.0019.	15A	U. SHAPED COPS	LN. 08080	1-01 (DB)				
24	3/4.0007	7. (5%	SCOTTED CLIP SUPPOR	LN-07012	6-02				
16	3/2.0002	· (5A	ICERCADES ASSY	LN-07081	8-01				
				LN-					
				LN-					
				LN-					
Insped	ction Plan								
Aspect	Sampling	Inspec		Acceptance para	ameters				
Α	100%	TRE	serce of icerca)es						
В	100%		quice of Jocuments (4						
С	(00%		LN MATCH PARTS FOR U						
D	(00%		ALCCOMPONENTS INTO BAGS						
E	100%		APPROPRIATECY DEM						
Inspect	Inspection Plan approved by: Date:								

Inspection Records

 $Ok = \checkmark + initials$

Date:	Quantity	Α	В	С	D	E	Notes	
080309-	4005	व्र नेष्ठ	BICAB	BRNB	OK'NB	AK DB		
				-		-		

Release certificates issue

Release Certificates issued: yes no By: N. Dong Our

Date: 02 03 09

Comments:

080309-01

BP350 PAD 314-0018-01 B LN-061115-06 Step: 40

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

	ability data		
Qty	Part No.	Desc:	Lot number
Pairs	112-0002-00-1	STREAMCINED	HTC-LNF-080211-01 HTC-LNF-yymmdd-seq
Include	s:		
2 _{NB}	314-0018-01-C	BEARAW PAD STREAMLINED	LN-0802[1-0]
6 pg	314-0019-15 A	y SHAPED CLIPS	LN-061114-05
12 in	314-0007-15 B	SLOTTED ELIP SUPPORT	LN-070126-02
8.0	312.0002-15A	ICEBLADES ASSY	LN-070818-01
~6			LN-
			LN-
			LN-

Inspection Plan

Aspect	Sampling	Inspection	Acceptance parameters
Α	100%	TRESENCE OF ICERCADES.	
В	100%	PRESENCE OF DOCUMENTS (4)	
С	100%	ALL IN MATCH PARTS FOR COT	,
D	100%	ALL COMBNENTS INTO BAGS	
E	100%	BOX AffROPRIATEUL IDENTIFIED	
Inspection	n Plan approved		Date: 0802-11

Inspection Records

Ok = √+initials

Date:	Quantity	Α	В	С	D	Е	Notes
Date:	1 PAIR	OK NB	SILNB	OR NB	Su als	18E.	
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D-		L:£:4	:
Re	iease	certificate	es issue

Release Certificates issued: yes no By: N. Date:08031

Comments:

1x 080211-01

HERICAN INFORMED TO
PRIERCE VENT HOLES
SEE SERV. BULLETIN COSII reva

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

	ability data		
Qty	Part No.	Desc:	Lot number
3		BP350	UTO LNE . 7 /4 /6
PAIRS	112.0002.00-B	BEARPAW ASSY	HTC-LNF- 07/10 - 0/ HTC-LNF-yymmdd-seq
Include	s:		
4	314.0018 01 B	BEARPAW PAD	LN- 061114-06
18	314.0019.15A	U SHAPED CCIPS	LN- 061114-05
36	314.0007.15B	Stoted cuit support,	LN- 06 (14-01
24	312.0002.15.A	ICEBLADES ASSY	LN- 070818-01
		J	LN-
			LN-
			LN-

Inspection Plan

Aspect	Sampling	Inspection	Acceptance parameters
Α	100 r.	PRESENCE OF ICEBCADE	5
В	100 r.	PRESENCE OF DOCUMENTS	
С	100%	ALC UN MATCH PARTS FOR	
D	100.0	ALC COMPONENTS INTO BAR	
E	100%	BOX APPROPRIATEU IDENTIF	SED
Inspectio	n Plan approved	d by:	Date:

Inspection Records

Ok =	T+initials
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Quantity	Α	В	C	D	E	Notes
3PAIRS	EN NB	BU NB	BBOLL	OK NO .	ble NB	
	3PAIRS	3PAIRS IN NB	3PAIRS IN NB BUNB	3PAIRS ON NB BUNB DROLL	3PAIRS ON NB BUNB DROLL BUNG	Quantity A B C D E 3PAIRS IN NB BURDE BURNS BURNS

Rala	200	ortifi	cato	s issue	_
1/6/6	asc c	CI LIII	Cale	5 155U	=

					_			
Release Certificates issued: yes	no	By:	1	aut		9	Date: 2	007-11.10
Comments:					The same of			

RELEASE CERTIFICATE ISSUED:

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Qty	Part No.	Desc:	Lot number
3 Pairs	112.0002.00-B	BEARPAW ASSY	HTC-LNF- 07 1102 - 0/ HTC-LNF-yymmdd-seg
Include	S:		,
6	314.0018.013		LN- 06/1/14-do
		U SHAPED CUPS	LN- 06/11/4-05
36	314.0007.15B	SLOTTED CCIP SUPPORTS	LN- 0611 14-01
24	314.0002.15A	ICE BLADE AS	LN- 06 11 14 - 03
			LN-
			LN-
			LN-

Inspection Plan

Aspect	Sampling	Inspection	Acceptance parameters
A	100%	PRESENCE OF ICE BLADES	
В	100%	PRESENCE OF DOCUMENTS (4)	
С	100%	ALL LA MATCH PARTS FOR LOT	
D	(co/	ALL COMPONENTS INTO BAGS	
E	100%	BOX APPROPRIATELY IDENTIFIE	A
Inspection	n Plan approve	ed by:	Date:

Inspection Records Ok = T+initials

Date:	Quantity	Α	В	С	D	E	Notes
2007.11.02	3 PAIRS	On Db	be De	The Da	BRPK	BANR	

Release certificates issu	е
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. toreace continuated reads		
Release Certificates issued: yes no By:	- Darbar	Date: 20 -7 -11.702
Comments:		
RECEDE CERTIFICATES HTC. RC. 071102-01 02,	issued;	

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Part No.	Desc:	Lot number
112-0002-00-B	BEARFAEN ASSY	HTC-LNF- 0706/4 - 0/ HTC-LNF-yymmdd-seq
es:		
314.0018.01.B	BEARPAW PAD	LN-061114-06
314.0019.15.A	U SHAPED CLIPS	LN-061114-05
314.0007.15 B	SCOTTED CLIP SUPPORT	LN-061114-01
		LN-061114-03
	,	LN-
		LN-
		LN-
	112-0002-00-B s: 314.0018.01.B 314.0019.15.A 214.0007.15 B	112.0002-00-B BEARFAW ASS S: 314.0018.01.B BEARFAW PAD 314.0019.15.A U SHAPED CLIPS

Inspection Plan

	Aspect	Sampling	Inspection	Acceptance parameters	
4	Α	100%	PRESENCE OF ICEBCADES	ICE BLADES INSTALLED	
S.	В	100%		3 Doc: 1) SHOG24 2) MASTER DOCC	ist diner
þ	С	100%	ALL LN MATCH PARTS FOR LOT	"	3771027
P	D	100%	ALL COMPONENTS INTO BAGS	44	
3	E	100%	BOX APPROPRIATELY IDENTIFIE	0 "	
	Inspection	n Plan approved	by: N. Barbeau	Date: 2007. 06. 14	

Inspection Records

Ok = √+initials

Date:	Quantity	Α .	В	С	D	Е	Notes
2007.06.14	6 PAIRS	OKNB	on NB	ou NB	0R 26	0 PZ 25	

Release certificates issue

Release Certificates issued: yes no By: N. BARBEAU	Date: 2007. 06. 14
Comments: RECEASE CERTIFICATE ISSUED:	2010-10-10-10-10-10-10-10-10-10-10-10-10-
Hrc. Rc. 070614 (01)	
" (02)	
• 403	
·, -64	
406	

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Don't Ma	_	
Part No.	Desc:	Lot number
(12.0002.00·B	BP350	HTC-LNF- 0703/5-0/ HTC-LNF-yymmdd-seq
	BEHIRTHW ASEMBLY	TTTC-LIVI -yyllillidd-seq
s:		
314.0018.01-B	BEARPAW PAD	LN-061115-06
314.0019.15-A	4 SHAPED CUP	LN-061114·05
314.0007.15B	SCOTTED CCIPSUPPART	LN-061114.01
		LN-061114.03
		LN-
		LN-
		LN-
	(12.0002.00.B 314.0018.01.B 314.0019.15.A 314.0007.15.B	(12.0002.00.B BEARPAW ASSEMBLY

Inspection Plan

				7
Aspect	Sampling	Inspection	Acceptance parameters	
Α	100%.	PRESENCE OF ICEBLADES	ICEBLADES INSTALLE	0
В	100%.	PRESENCE OF DOCUMENTS	ALL 3DOE IN BAG: SHOG24,	0
С	100%	ALL LN MATCHUSED PARTS FO	RLOT " +INST.	
D	100%.	ALL COMPONENTS INTO BAGS	U	
E	100%	BOX APPROPRIATELY INENTIFIELD) 4	
Inspectio	n Plan approved	by:	Date:	

Inspection Records

Ok = √+initials

Date:	Quantity	Α	В	С	D	E	Notes
Date:	2 PAIRS	OK NB	OR NB	OK NB	OR HB	ou NB	

Rel	6256	certific	ates	issue

TOTOGOG GOTTITIOGEGO IQ	OGO				
Release Certificates issued:	yes	no	By: Næthali	Barteau	Date: COO7. 03.15
Comments:					

HTC. RC. 070315-(01) HTC. RC. 070315-(02)

issueD.

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Qty	Part No.	Desc:	Lot number
2 Pairs	112-0002-00-B	BEARPAW ASSEMBLY	HTC-LNF- 06/220- 0/ HTC-LNF-yymmdd-seq
Include	s:		
4	314-0018-01-B	BEARPAW PAD	LN-06/115-06
12	314-0019-15-A	BEARPAW U. SHARD CLIP	LN-061114-05
24	314-0007-15-B	BEARPAN SLOTTED CLIPSY	20N-061/14-01
16	314-0002-15-A.	BEARPAW ICE BLADE ASSY	LN-061114-03
			LN-
			LN-
			LN-

Inspection Plan

Aspect	Sampling	Inspection	Acceptance parameters	
Α	100%	PRESENCE OF ICEBLADES	ICEBLAIRS INSTACCED	
В	100%.	PRESENCE OF DOCUMENTS		RT+UST
С		ALL LN MATCH USED PARTS FO		
D		ALL COMPONENTS INTO BAGS	7000	O INSTACL
E	-	BOX APPROPRIATES IDENTITE	COMPONENTS.	COMPTS
Inspection	on Plan approved	by: A. Bartas	Date: 200 (a) 12, 20	EVIBGED)

Inspection Records

Ok = T + initials

			and the same of th				
Date:	Quantity	Α	В	С	D	E	Notes
2006-12-20	2 PAIRS	OK B	OLE DB	OK DB	OKAB	WENB	

Release certificates issue

Release Certificates issued: yes no Comments:

	Helitow	cart	- RELEASE	INSPE	CTIO	N ge	eneral			F40-02	Page 1 of 1	7	
			approved by:								2006 09 09	-	
)	Traceability data												
4	Qty	Part No. Desc:								Lot number			
	J.	T GIT	140.						LOUI	idifibei		1	
	PAIR	112	-0002-0	50.B	BP3		w Assa	EMALY	HTC	-LNF- OG -LNF-yymmdo	1115-01		
	Include	s:)					
	2	314	-0018-0	01-B	BEAR	Pau	PAD		LN-	061115 -	06		
	6	314	-0019-1	S. A	BEAR	PAU	N LI-SHA	HED CLIP	LN-	061114-	0.5		
	12	314	-5007-I	5.B	BEAR	PAW	Switted	CLIP SUPF	LN-	061114-	. 01		
	8	314.	- 0002-15	- A	BEAR	Aw	ICE BYA	DE ASSY	LN-	61114-	-03	_	
									LN-			-	
					-				LN-			-	
	Inspe	ction	Plan										
	Aspect		mpling	Inspec	tion				Acce	eptance para	meters		
	A		00%				ICE BL				INSTALLED		
	В		00%				= Powr		ACC	3 DOC. IN	BAG: INSTRICER	TIF LIST	
	C D		01.					ets foeld		TE		PARTS	
)	E		07.					SENTON	451	_		-	
				BOX F	treno	Pri	ATEN IN	ENTIFIC (Data			4	
	Поресс	OIII	an approved	by. \sim		a	too		Date.	2006.11	. (5		
		ction	Records		Ok =	= 🗸+	initials						
	Date:		Quantity	Α	В		С	D	E	Notes			
	2006.11	. 15	1 PAIR	OK NB		<	OR NB	OR NE	> <				
(NOT A	VASO	ARCE YET.	KIT FOR	7				MA-	BP. KIT	FOR TESTS.	-	
												1	
												-	
ı							L]	
,			ertificates						*				
			ificates issue	d: yes	no	Ву:				Date:]	
	Comme	nts:											

Helitowcart - RELEASE INSPECTION general	F40-02	Page 1 of 1
Reviewed & approved by:		2006 09 09

Qty	Part No.	Desc:	Lot number
16 Pairs	112 0005 00 A	BP130 BEARPAW ASS'Y	HTC-LNF- 110620-01 HTC-LNF-yymmdd-seq
Include	S:		•
S	E ATTACHED	excec sheet	LN-
Fo	R DETAICED	LIST OF COMPENENTS	LN- AVOIT TO 2013
			LN-

Inspection Plan

Aspect	Sampling	Inspection Acceptance parameters	
Α	100%	PRESENCE OF ALL COMPONENT TYPES	
В	11	PRESENCE OF DOCUMENTS	
С	. 0	ACL CN MATCH LISED PARTS	
D	M	ALL COMPONENTS IN CURRECT DIY	
E	н	BOX APPROPRIATELY IDENTIFIED	
Inspection	n Plan approve	ed by: Daleau Date: 2011 06 14	

Inspection Records

Ok = T + initials

Date:	Quantity	Α	В	C	D	E	Notes
	10 Paies	OKOB	* PI	PENE	du by	Nowis	·US STC NOT YET RECEIVE
							Notes LLS STC NOT YET RECEIVE NCR

Release certificates issue

Release Certificates issued: ye	s no	By: N. Dellan	Date: 2011 08 25
Comments:		, , , , , , , , , , , , , , , , , , , ,	Date. 7611 00 03

XNCR 2011:00-12-Nb-01: BEARPON PARS DEROCATION: OK

HTC-RC-110620-01											
1 2 3 4 5 6 7 8 9 10	HTC-LNF-110620-01	P/N	Qté par paire	Nb paires req	Qté totale pièces	1	Qty	Lot 2	Qty	Lot 3 Qty	y
Pads						****The 2 first pairs sold to Capitale Heli****		****The rest of the lot with batches 2/3 and 3/3 of Amec	-		
L1 L1 L2 L2 L2 L2 L2 L2 L2 L2	Bp pads STREAMLINE	314 0024 01 C	2	10	20	LN-110706-01		LN-110823-01 (6+10=16) // Derogation See NCR2011-08017-nb-01	16		
Components											
.1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Iceblade Assy	263 0005 15 C	8	10	80	LN110323-05	80				
.1 L1 L1 L1 L1 L1 L1 L1 L1 L1+L2	Nuts	262 0001 17 A	28	10	280	Aircraft Spruce MS21044N4 AN365-428A Lot 73831/719009	277	Aircraft Spruce MS21044N4 AN365-428A Lot 73831/718601	3		
.1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Washers	263 0001 17 A	40	10	400	Aircraft Spruce AN960-416 Lot 74431/V7588	400				
.1 L1 L1 L1 L1 L1 L1 L1 L1 L1	U-shaped Clips	314 0026 15 B	4	10	40	LN110610-01	40			_ ^	
1 11 11 11 11 11 11 11	L-shaped Clips	314 0025 15 B	4	10	40	LN110610-02	40	IN-151125-01	4		
1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Slotted clip Supports	314 0007 15 B	12	10	120	LN110323-04	120			2-10	_
1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Bolts AN4-14A	261 0001 17 A	12	10	120	Aircraft Spruce AN4-14A Lot 74944/14597	120		-	201605 26	1
1 L1 L1 L1 L1 L1 L1 L1 L1 L1	Filler blocks 1/8"	314 0015 01 A	12	10		Gr Polyfab LN110522-02	120		_	6	1
na na L1 L1 L1 L1 L1 L1 L1 L1		314 0007 15 B		10		•		LN110323-04 Parts added for Derogation See NCR2011-08-17-nb-01 Pads issue, added slotted clip supports as fillers	192		

3 (A) (2016 05 26

LIZ, LZ) "L" CCIPS HAD TO BE TAKEN FROM THESE 2 BOXES

TO SUPPLY COSTOMER NEEDING REPLACEMENT PARTS (FEARFULATION)

THE CLIPS WE'RE REPLACED BY NEW ONES LN. 151(25-0). 2011 08 25

S. Braham



August 25, 2011

Object:

Additional fillers to ensure Tightness as needed

To whom concerned,

A derogation was issued for the Bearpaw pads you have in hand. Zone B has been manufactured slightly thinner than specified nominal value of 1". Rest assured that thickness is still within tolerance.

To ensure that you can attach U-clips and L-clips with optimal tightness to skids we thus offer additional fillers called Slotted Clip Supports. This will allow to cover for the slight pad thickness variation if needed.

We recommend you install the additional fillers just before inserting the U-Clips and U-Clips as needed only.

Find attached a lot of additional Slotted Clip Supports for your possible needs.

We invite you to contact us should you required further information

Kind Regards

Nathalie Barbeau, Quality Assurance Director

Helitowcart

NOTE: THIS CETTER WAS INSERTED INTO BAG WITH 24 SCOTTED CUIP SOPPORTEACH.

LNF-110620-01_BP130_InfoLetter_Add_fillers_(2011_08_25)

Helitowcart – NON CONFORMITY report	F80-02	Page 1 of 1
Reviewed & approved by:	N. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	2006 09 09
Section A - Non conformity description		
Product / Output:	NCR: 1	
BP130- PADS	NCR: 2011-08-17-nb-01 yyyy-mm-dd-initials-#	
Product no: 314 - 0024-01	ASS no:	
Non conformities:	CARPAR no:	
DAMEC INFORMS THAT SHEETS OF CHIMW ARE NOT NI	iæ.	
THE WILL NEED TO MACHINE BOTH SIDES. THIS HAS IMPACT ON THICKNESS.	Supplier: AMEC	
HOW MLICH CAN THEY MACHINE? NOTE:	Supplier ref no: 100904	
CONCY SHOWS XX + XXX)		
	Quantity rejected: NOT MADE	
Initiated by: N. Bartage Date: 201/	Quantity in the lo	ot: //0/2-
Section B – Prescribed disposition	The second	w (Apple of the
Decision & notes:	□ Wait	□ Repair
I CHECKED with SIMON AT AVIATECH. WE HAVE MARGIN ON THICKNESS ON ZONE B.	☐ Discard	☐ Use as is
BU TO TOL FOR WEAR IN INSTACL INSTR.		→ Derogation
314-0031-00A. P. 6/11 + 1/11) SUPPCIERS ASKS FOR -0,100/	supplier	(=use as is with
Actions	Accepted)	or without repair)
	Resp	Verified by
PROVIDE NOTE CONFIRMING ACCEPTANCE BY	TOL. WEAR	Derog.
DEROGATION.	104	-
ee Grinning I	0.250	-0,100
CMACHINING (SUMFACING)	-	
	STICL O,1	
E) AND COPILERS - POPUL	20	MARSIN
FOR LOSS OF THICKNESS IN BZONE	NA	FOR WEAH
Prescribed by: Date: 2011 08 17		
ection C – Final verification		
Decision & notes:	THO ALL YES	No.
THIS DEROGATION ACCOUS TO USE A BATCH	t OF RO	
THAT MAS A DAY LOOKING FINISH, THE	SURFACING	Req'D
Closed by: N. Bartan Date: 2011 08 23	GRANCES.	